

## CONVERSION NOTES

This is the Undergraduate Catalog. Most references to Graduate programs and options have been removed and put in the Graduate Catalog.

This catalogue was created by converting HTML content into a PDF file. The complex inter-linkage of references was only partially duplicated, but all data from the HTML structure is in this PDF file. The most complete information on any Degree or Program will be under the College or School, in the Department's Academic Offerings.

The document follows the outline of the HTML structure: Courses, Academic Offerings, College & Schools, Faculty and Administration, Policies & General Information.

### Hyperlinks

There are hundreds of hyperlinks in the text. Most of them link to pages in the PDF, but some link back to the website, and may link to web pages with current information that is not applicable to this catalogue. To find out where the link goes: hover the cursor over a hyperlink. If the cursor becomes a hand with pointing finger, it is a local link that will go to a page in the PDF. If the cursor becomes a hand with pointing finger and a box with a "W" in it, the link goes to the web.

Courses specific to a Program are listed under the College/School under the *Departments and Programs* link.

### Odd Characters

The conversion program changed lower case "st" into a ligature: **statistical**

It sometimes changed apostrophes and hyphens into a diamond with a question mark:

advisor  s

The Find/Replace function does not recognize these characters, so they could not be replaced.



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## Welcome

This is the official publication of degree programs and requirements and course descriptions for the 2005-2006 academic year produced annually by the Office of the Provost.

Students at The University of Vermont are responsible for knowing and complying with all requirements for their respective degrees as stated in the catalogue.

Notes on using the online catalogue:



The official Catalogue bar is at the left of each official Catalogue page.



The arrow identifies links that point outside the official catalogue site [External Link].

**Disclaimer:** *The University of Vermont reserves the right to make changes in the course offerings, degree requirements, charges, regulations, and procedures contained herein as educational and financial considerations require, subject to and consistent with established procedures and authorizations for making such changes.*



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# UVM Academic Calendar

## :: Academic Year 2005-2006

### Fall 2005

<b>Events</b>	<b>Dates</b>	<b>Days of Week</b>
First Day of Classes	August 29	Monday
Labor Day Holiday	September 5	Monday
Add/Drop, Pass/No Pass, Audit Deadline	September 12	Monday
Withdrawal Period Begins	October 13	Tuesday
Fall Recess	October 14	Friday
Last Day to Withdraw	October 28	Friday
Thanksgiving Recess	November 23-25	Wednesday-Friday
Last Day of Classes	December 7	Wednesday
Reading and Exam Period	December 8-16	Thursday-Thursday, Friday
Reading Days	December 8,10-11,14	Saturday, Sunday, Wednesday
Exam Days	December 9,12,13,15,16	Friday, Monday-Tuesday, Thursday-Friday
Reception for December Graduates	December 17	Saturday

### Spring 2006

Martin Luther King Holiday	January 16	Monday
First Day of Classes	January 17	Tuesday
Add/Drop, Pass/No Pass, Audit Deadline	January 30	Monday
Presidents' Day Holiday	February 20	Monday
Town Meeting Day Recess	March 7	Tuesday
Last Day to Withdraw	March 17	Friday
Spring Recess	March 20-24	Monday-Friday
Honors Day	April 21	Friday
Last Day of Classes	May 3	Wednesday
Reading and Exam Period	May 4-12	Thursday-Thursday, Friday
Reading Days	May 4,6-7,10	Thursday, Saturday-Sunday, Wednesday
Exam Days	May 5,8-9,11-12	Friday, Monday-Tuesday, Thursday-Friday
Commencement	May 21	Sunday

Revised by the Faculty Senate 4.17.01



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## About Catalogue Courses

*Continue on to **Course Listings***

The University reserves the right to change course offerings at any time.

A student who lacks the stated prerequisites for a course may be permitted to enroll by the instructor. Such students must inform the instructor that they lack the prerequisites, and the instructor will make appropriate efforts to ascertain that they are properly qualified. Students enrolled who do not meet the prerequisites of a course may be disenrolled from that course. The instructor will notify the registrar of this action.

Courses are divided into three levels: introductory, intermediate, and advanced. Where appropriate, a department may limit enrollment in a particular course. Such limitations, other than class size, must be explicitly stated.

Some departments will make further subdivisions of courses at some levels.

### Courses 1-99

Courses numbered from 1 to 99 are introductory courses. Introductory courses emphasize basic concepts of the discipline. In general, they presuppose no previous college work in the subject. The only exceptions to this rule are those cases in which there is a two-semester introductory sequence. In such cases, the second-semester course may have the first-semester course as a prerequisite.

**Note for graduate students:** *Under no circumstances will graduate credit be allowed for a course numbered below 100.*

### Courses 100-199

Courses numbered from 100 to 199 are intermediate courses. An intermediate course

covers more advanced material than that treated in introductory courses. Students will be expected to be familiar with the basic concepts of the subject, and the course will present more difficult ideas. Intermediate courses will generally be more specialized than introductory courses. An intermediate course will always have a minimum prerequisite of three hours' prior study in the discipline or in another specified discipline.

**Note for graduate students:** *Courses numbered 100 to 199 may not be taken for graduate credit except upon the recommendation of a student's Studies Committee and with the authorization of the Dean of the Graduate College prior to enrollment. Authorization will be limited to one appropriate course (three credit hours) for a master's program and two appropriate courses (six credit hours) for a doctoral program. Graduate students may take additional 100-level courses beyond those values, but graduate credit will not be allowed for such courses. Graduate programs designed for the Master of Science for Teachers degree (MST) are exempted from this rule. Nondegree students are not permitted to receive graduate credit for courses numbered 100 to 199.*

### Courses 200-299

Courses numbered 200 to 299 are advanced courses. An advanced course presents concepts, results, or arguments which are only accessible to students who have taken courses in the discipline (or, occasionally, in a related discipline) at the introductory and intermediate levels. Prior acquaintance with the basic concepts of the subject and with some special areas of the subject will be assumed. An advanced course will always have a minimum prerequisite of three hours of prior study at the intermediate level in the discipline, or in a related discipline, or some specified equivalent preparation.

**Note for graduate students:** *Some, but not all, 200-level courses carry graduate credit. Graduate students should refer to [the list of courses approved for graduate credit](#) to identify these courses. To obtain graduate credit, the graduate student generally is expected to meet higher qualitative and/or quantitative expectations than the undergraduate student. Seniors who wish to take a course for graduate credit must receive permission through the office of their dean (see [Undergraduate Enrollment for Graduate Credit](#) in the policies section of this Web site) prior to enrolling in the course.*

### Courses 300 and Above

Courses numbered 300 to 399 are generally limited to graduate students. Courses numbered 400 or above are limited to candidates for the degrees of Doctor of Education and Doctor of Philosophy.

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## Courses in A&S Interdisciplinary (AS)

### AS 095 - Focus:First Year Seminar

Credits: 4.00





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### Courses in ALANA U.S.Ethnic Studies (ALAN)

**ALAN 051 - Intr to ALANA US Ethnic Studies**

Survey of the experience of ALANA peoples in the U.S. as well as a theoretical analysis of issues of race, culture, gender, and diverse traditions in the American multicultural setting.

Credits: 3.00

**ALAN 055 - Racism and American Culture**

Survey and analysis of racism in the development of American institutions and its effects upon ALANA groups and societies.

Credits: 3.00

**ALAN 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**ALAN 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**ALAN 159 - Am Cultrl Images ALANA Peoples**

Comparative study of ALANA groups and the stereotypical and archetypal impressions projected on peoples of color in American society. Prerequisites: ALAN 051 or ALAN 055 or having previously satisfied the College of Arts and Sciences Race and Ethnicity requirement.

Credits: 3.00

**ALAN 191 - Field Experience: Internship**

Prerequisite: Junior standing; six hours of 100-level courses in appropriate field and program permission. A Studies program during preregistration. contract must

be obtained from and returned to the ALANA

Credits: 3.00

**ALAN 195 - Intermediate Special Topics**

Intermediate courses or seminars beyond the scope of existing ALANA offerings. See Schedule of Courses for specific titles. Prerequisite: Sophomore standing.

Credits: 3.00

**ALAN 196 - Intermediate Special Topics**

Intermediate courses or seminars beyond the scope of existing ALANA offerings. See Schedule of Courses for specific titles. Prerequisite: Sophomore standing.

Credits: 3.00

**ALAN 198 - Readings and Research**

Credits: 1.00 to 12.00

**ALAN 269 - Cross-Cultural Psyc:Clin Persp**

Introduction to issues posed for psychologists in their work with ALANA (African, Latino/a, Native and Asian American) and international populations. Critical appraisal of readings, research and case studies. Prerequisites: PSYC 1, 109. (Same as PSYC 269)

Credits: 3.00

**ALAN 277 - Sem in ALANA US Ethnic Studies**

Interdisciplinary examination of theories on the position of ALANA peoples in U.S. culture and society. Emphasis on relationship between race, class, gender, and ethnicity. Prerequisites: Six hours in ALANA U.S. Ethnic Studies; admission to ALANA U.S. Ethnic Studies minor program. Not offered for graduate credit.)

Credits: 3.00

**ALAN 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departments. See Schedule of Courses for specific titles. Prerequisite: Junior standing. (Not offered for graduate credit.)

Credits: 3.00

**ALAN 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departments. See Schedule of Courses for specific titles. Prerequisite: Junior standing. (Not offered for graduate credit.)

Credits: 3.00

**ALAN 297 - Independent Study**

Special topics in consultation with ALANA U.S. Ethnic Studies faculty. Prerequisites: Permission of program director; junior standing. (Not offered for graduate credit.)

Credits: 3.00

**ALAN 298 - Independent Study**

Special topics in consultation with ALANA U.S. Ethnic Studies faculty.

Prerequisites: Permission of program director; junior standing. (Not offered for graduate credit.)

Credits: 3.00

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## Courses in Agricultural Biochemistry (AGBI)

### **AGBI 010 - Introductory Biochemistry**

Credits: 3.00

### **AGBI 191 - Biochemistry of Nucleic Acids**

Structure, function, and properties of nucleic acids, nucleoproteins, and enzymes or proteins that act on nucleic acids. Emphasis on experimental approach.

Prerequisite: AGBI 010 or equivalent or Instructor permission. Alternate years, 2000-01.

Credits: 2.00

### **AGBI 195 - Special Topics**

Prerequisite: Instructor permission.

Credits: 3.00

### **AGBI 198 - Undergraduate Research**

Prerequisite: Department permission.

Credits: 1.00 to 3.00

### **AGBI 201 - General Biochemistry**

Broad coverage of biochemistry including principles of analytical biochemistry.

Prerequisites: CHEM 042 or CHEM 141 Three hours and one lab hour as AGBI 202.

Credits: 3.00

### **AGBI 202 - General Biochemistry Lab**

Introduction to techniques and equipment used for the isolation and quantitative analysis of amino acids, proteins, carbohydrates and DNA enzymes in biological materials. Prerequisites: Credit for or concurrent enrollment in AGBI 201.

Credits: 1.00

**AGBI 220 - Molecular Biology**

Structure and biological function of nucleic acids, proteins, and enzymes.

Emphasis on optical, electrophoretic, and ultracentrifugal methods. Prerequisites: AGBI 201 and AGBI 202 or Instructor permission.

Credits: 3.00

**AGBI 221 - Molecular Biology Lab**

Laboratory practice in protein characterization by disc electrophoresis and isoelectric focusing. DNA separation and characterization by agarose gel electrophoresis, restriction digests, polymerase chain reaction, and Southern blots.

Prerequisites: Credit for or concurrent enrollment in AGBI 220.

Credits: 1.00

**AGBI 230 - Advanced Biochemistry**

Study of metabolic cycles emphasizing research methods involving radioisotopes and chromatography. Prerequisites: AGBI 201 and AGBI 202 or AGBI 220 and AGBI 221 or Instructor permission.

Credits: 3.00

**AGBI 231 - Advanced Biochemistry Lab**

Laboratory experimentation emphasizing chromatography. Introduction to modern GLC and HPLC techniques, protein secondary structures, and enzyme isolation, purification, and characterization. Prerequisites: Credit for or concurrent enrollment in AGBI 230.

Credits: 1.00

**AGBI 250 - Plant Biochemistry**

Study of specific biochemical principles unique to plants concentrating on the biochemistry of plant cell walls, photosynthesis, and secondary metabolites.

Prerequisites: AGBI 201. Alternate years, 2001-02.

Credits: 2.00

**AGBI 295 - Special Topics**

Prerequisite: Instructor permission.

Credits: 2.00

**AGBI 301 - Special Problems**

Prerequisite: Department permission.

Credits: 1.00 to 3.00

**AGBI 381 - Biochemistry Seminar**

A topical seminar with discussion of assigned and collateral reading. Required of graduate students.

Credits: 1.00

**AGBI 391 - Master's Thesis Research**

Credit as arranged.  
Credits: 1.00 to 18.00

**AGBI 491 - Doctoral Dissertation Research**

Credit as arranged.  
Credits: 1.00 to 12.00

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### Courses in Agriculture (AGRI)

**AGRI 001 - Foundations:Communication Meth**

Foundational course to acclimate CALS First-Year students to college life and develop individual and group public speaking skills through giving and critically analyzing presentations.

Credits: 3.00

**AGRI 002 - Foundation:Information Tech**

Foundational course to acclimate CALS First-Year students to college life and develop information technology skills through use of computer hardware and software and internet applications.

Credits: 3.00

**AGRI 085 - Computer Applications**

Use of computer operating systems programming languages, electronic communications, word processing, spreadsheet modeling and graphics, and internet software related to the agricultural and life sciences.

Credits: 3.00

**AGRI 095 - Introductory Special Topics**

Credits: 1.00

**AGRI 096 - Special Topics**

Credits: 1.00

**AGRI 125 - Teaching Assistant Development**

TA's develop skills in areas of leadership, group dynamics, interpersonal effectiveness, and assertiveness as group facilitators in Beginnings course. Prerequisites: Sophomore standing, permission.

Credits: 3.00

**AGRI 183 - Communication Methods**

Introduction to informational and persuasive public speaking. Developing individual and group oral communication skills through giving and critically analyzing presentations.

Credits: 3.00

**AGRI 195 - Special Topics**

Appropriate for interdepartmental and interdisciplinary topics in Agriculture and Life Sciences. Permission of Dean's Office.

Credits: 3.00

**AGRI 196 - Special Topics**

Appropriate for interdepartmental and interdisciplinary topics in Agriculture and Life Sciences. Permission of Dean's Office.

Credits: 3.00





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## Courses in Anatomy & Neurobiology (ANNB)

### **ANNB 197 - Undergrad Research**

Individual laboratory research under guidance of faculty member. Prerequisite: Departmental permission.  
Credits: 3.00 or 6.00

### **ANNB 198 - Undergrad Research**

Individual laboratory research under guidance of faculty member. Prerequisite: Department permission.  
Credits: 3.00 to 6.00

### **ANNB 201 - Human Gross Anatomy**

Lectures and detailed regional dissections emphasize functional anatomy of major systems (e.g. musculoskeletal, cardiovascular, nervous). Prerequisite: Permission.  
Credits: 6.00

### **ANNB 202 - Human Neuroscience**

Structural basis of human nervous system function: spinal reflex organization, sensory/motor systems, clinical examples, brain dissection, cell biology of neurons & glia, membrane excitability, & synaptic transmission.  
Credits: 3.00

### **ANNB 261 - Neurobiology**

Focus on molecular and cellular aspects of the nervous system. Electrical signaling, synaptic transmission, signal transduction, neural development, plasticity and diseases. Prerequisites: BIOL 103 or ANPS 19 & 20. (Same as BIOL 261).  
Credits: 3.00

### **ANNB 295 - Special Topics**

UG only.

Credits: 6.00

**ANNB 296 - Advanced Special Topics**

UG only.

Credits: 3.00

**ANNB 301 - Medical Gross Anatomy**

Individualized laboratory instruction, small group conferences, clinically correlated lectures. Basic anatomical information. Emphasis on importance of the relationship between normal human structure and function.

Credits: 8.00

**ANNB 302 - Neuroscience**

A correlated presentation of the neuroanatomy and neurophysiology of the mammalian central nervous system. Lectures, demonstrations, laboratory, and clinical correlation workshops.

Credits: 4.00

**ANNB 306 - Techniques in Neurobiology**

Discussion, demonstration of techniques used to study the nervous system. Experience with light, fluorescence, electron microscopy; microsurgical procedures; electrophysiological stimulating, recording techniques; neuronal tracing techniques. Prerequisite: Neuroscience 302.

Credits: 3.00

**ANNB 311 - Medical Histology**

Microscopic study of cells, tissues, and organs emphasizing the correlation of structure and function.

Credits: 3.00

**ANNB 320 - Developmental Neurobiology**

Provides fundamental knowledge of cell-to-cell interactions necessary for proper development and organization of the nervous system. Topics include pattern formation, neuronal differentiation, axon guidance, and target interactions. Prerequisite: Neuroscience 302 or consent of instructor. Alternate years.

Credits: 3.00

**ANNB 323 - Neurochemistry**

Biochemistry of the nervous system. Topics include ion channels, synaptic function, neurotransmitters and neuropeptides, signal transduction, and hormones in brain function. Prerequisite: 302 or Cell and Molecular Biology 301 or Biochemistry 301, 302. Alternate years.

Credits: 3.00

**ANNB 330 - Comparative Neurobiology**

This course is designed to introduce students to the cellular mechanisms that underlie selective motor and sensory abilities that have evolved in various species. Pre/co-requisites: pre-requisite of upper level undergraduate or graduate course in neuroscience that includes both neuroanatomy and neurophysiology.

Credits: 2.00

**ANNB 342 - Spec Dissections in Gross Anat**

A detailed and independent study of a single anatomical region, utilizing gross, microscopic, and embryologic materials. Prerequisite: 301.

Credits: 1.00

**ANNB 381 - Sem in Anatomy & Neurobiology**

Research presentations and critical review of the literature in various areas of anatomical and neurobiological sciences.

Credits: 1.00

**ANNB 382 - Sem in Anatomy & Neurobiology**

Research presentations and critical review of the literature in various areas of anatomical and neurobiological sciences.

Credits: 1.00

**ANNB 391 - Master's Thesis Research**

Credit as arranged.

Credits: 1.00 to 18.00

**ANNB 395 - Special Topics**

A supplementary course to the medical neuroscience course (Neuroscience 302) designed for graduate students which will provide more detailed information concerning selected topics in neurobiology. Prerequisite: Neuroscience 302.

Credits: 3.00

**ANNB 491 - Doctoral Dissertation Research**

Credit as arranged.

Credits: 1.00 to 18.00



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## Courses in Anatomy/Physiology (ANPS)

### **ANPS 019 - Ugr Hum Anatomy & Physiology**

Two-semester course with credit given only upon completion of both semesters. Structure and function of human body using cadaver prosections, histological material, and physiological experiments. Required of all Medical Lab Science, Nursing, Nutritional Sciences, Dental Hygiene, Radiation Therapy, Nuclear Medicine Technology, and Physical Education students; others with instructor's permission. Prerequisite: 19 for 20.

Credits: 4.00

### **ANPS 020 - Ugr Hum Anatomy & Physiology**

Two-semester course with credit given only upon completion of both semesters. Structure and function of human body using cadaver prosections, histological material, and physiological experiments. Required of all Medical Lab Science, Nursing, Nutritional Sciences, Dental Hygiene, Radiation Therapy, Nuclear Medicine Technology, and Physical Education students; others with instructor's permission. Prerequisite: 19 for 20.

Credits: 4.00

### **ANPS 095 - Introductory Special Topics**

Credits: 4.00



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## Courses in Animal Science (ASCI)

### **ASCI 001 - Introductory Animal Sciences**

An overview of the genetics, nutrition, reproduction, and management of livestock and recreation species; introduction to animal behavior, animal disease, and biotechnology.

Credits: 4.00

### **ASCI 004 - Dairy Cattle Judging**

Principles of dairy cattle judging demonstrated and practiced using live animals.

Credits: 2.00

### **ASCI 006 - Companion Animal Care & Mgmt**

Scientific principles of nutrition, breeding selection, health, management practices, pet therapy, and animal bonding. Primary emphasis on cat and dog.

Credits: 3.00

### **ASCI 043 - Fundamentals of Nutrition**

Comprehensive study of specific nutrients in terms of their availability, function, and utilization in mammalian species. Prerequisites: High school chemistry and biology.

Credits: 3.00

### **ASCI 110 - Animal Nutrit, Metab & Feeding**

Principles of meeting the nutrient requirements of animals, especially as they relate to the practical problems of formulation and production systems.

Prerequisite: ASCI 043.

Credits: 4.00

### **ASCI 115 - Introduction to Equine Studies**

Overview of the scientific and practical application of equine management and

selection principles. Housing, nutrition, herd health, reproduction, and career opportunities.

Credits: 4.00

**ASCI 117 - Horse Health and Disease**

Discusses the basic anatomy and physiology of the horse, common equine diseases and problems, their diagnoses, prevention, and treatment. Prerequisite: ASCI 001; a Biology course, or Instructor permission.

Credits: 3.00

**ASCI 118 - Appl Animal Health**

A study of small and large domestic animal diseases. Natural response to disease, methods of diagnosis, control, and treatment. Prerequisite: ASCI 001; a Biology course, or Instructor permission.

Credits: 3.00

**ASCI 119 - Equine Training Techniques**

Behavior modification and training of the young horse under saddle and in the cart. Introduction to interdisciplinary directions open to the equine athlete and to conditioning programs associated with these options.

Credits: 3.00

**ASCI 121 - Equus**

A hands-on equine management experience. Students perform horse duties, recordkeeping, and make financial and management decisions on a horse boarding operation. Prerequisite: Sophomore standing; Instructor permission.

Credits: 4.00

**ASCI 122 - Animals in Soc/Animal Welfare**

Designed to heighten awareness and understanding of human-animal relationships in society, agriculture, and science. Prerequisite: Sophomore standing.

Credits: 3.00

**ASCI 125 - Equine Instructing Techniques**

Examines philosophies, concepts and teaching-learning strategies needed for the development of sound equine instructing skills. Prerequisite: ASCI 115 or Instructor Permission.

Credits: 3.00

**ASCI 134 - CREAM**

A two-semester course in which students perform the work and make the financial and management decisions associated with the CREAM dairy herd. Prerequisite: Sophomore/Junior standing; Instructor permission.

Credits: 4.00

**ASCI 135 - CREAM**

A two-semester course in which students perform the work and make the financial and management decisions associated with the CREAM dairy herd. Prerequisite: Sophomore/Junior standing; Instructor permission.

Credits: 4.00

**ASCI 141 - Anat&Physiol Domestic Animals**

A comprehensive review of the structure and function of domestic animals, emphasizing those of economic importance. Differences between mammalian and avian species are discussed. Prerequisite: BIOL 001; a chemistry course, or Instructor permission.

Credits: 4.00

**ASCI 143 - Forage Crop Management**

(See Plant and Soil Science 143.) Alternate years, 2002-03.

Credits: 4.00

**ASCI 154 - Dog Training and Behavior**

Canine behavior is thoroughly examined and applied to the training and behavior modifications of dogs. Prerequisite: ASCI Major or Instructor permission.

Credits: 3.00

**ASCI 155 - FARMS Junior Planning Seminar**

The course objective is to introduce students to: 1) on-campus research and learning resources, and 2) Vermont's dairy industry through field trips, and discussion of business' strengths and weaknesses. Prerequisite: Enrollment in FARMS program.

Credits: 2.00

**ASCI 156 - FARMS Senior Planning Seminar**

The course provides opportunity for students to develop and present an oral and written formal research project proposal for their Senior research project (ASCI 252). Prerequisite: Enrollment in FARMS program.

Credits: 2.00

**ASCI 161 - Lab Animal Health & Disease**

An introduction to laboratory animal science and welfare covering animal care and management, the correct performance of experimental procedures, and the regulatory and legislative framework governing it. Prerequisite: ASCI 001; a Biology course, or Instructor permission.

Credits: 3.00

**ASCI 171 - Zoos, Exotics & Endang Species**

From gorillas to golden lion tamarinds, how human attitudes, activities, utilization, and management strategies impact wild and captive animal populations. Prerequisite: ASCI 001 or Instructor permission.

Credits: 3.00

**ASCI 195 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and business or community representative. Prerequisite: Instructor permission. Total credits towards graduation cannot exceed 15 hours.

Credits: 12.00

**ASCI 196 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and business or community representative. Prerequisite: Instructor permission. Total credits towards graduation cannot exceed 15 hours.

Credits: 0.50 to 15.00

**ASCI 197 - Undergraduate Research**

Research activity under direction of qualified staff member. Must have faculty member approval. Written proposal and report required. Prerequisite: Junior standing; Department Chair permission.

Credits: 2.00

**ASCI 198 - Undergraduate Research**

Research activity under direction of qualified staff member. Must have faculty member approval. Written proposal and report required. Prerequisite: Junior standing; Department Chair permission.

Credits: 3.00

**ASCI 205 - Equine Reproduction&Management**

In-depth investigation of equine reproduction and physiology, mare and stallion endocrinology, breeding techniques, processing semen, embryo transfer, parturition, neonatal foal care, and marketing in the equine industry. Prerequisite: ASCI 001, ASCI 115, or Instructor permission.

Credits: 3.00

**ASCI 211 - Summer Farm Management**

A work-study program on the modern practices associated with farm management. Taught at Miner Institute, Chazy, NY. For students with a strong interest in farm management. Prerequisites: Junior, senior, or graduate standing. Not offered for graduate credit.

Credits: 4.00

**ASCI 212 - Animal Genetics & Breeding**

The discussion of genetic principles and their application in the improvement of farm animals. Student teams develop a breeding plan in a semester project. Prerequisites: A course in statistics (141 preferred), Biology 1, or permission. Not offered for graduate credit.

Credits: 4.00



**ASCI 214 - Dairy Herd Management**

Organization and management of the dairy herd. Practical application of feeding, reproduction, milking, and general management principles. Prerequisites: Junior standing or instructor permission. Not offered for graduate credit.

Credits: 4.00

**ASCI 215 - Physiology of Reproduction**

Fundamental principles of the physiology of reproduction with emphasis on, but not limited to, farm animals. Prerequisite: ASCI 141 or instructor permission.

Credits: 4.00

**ASCI 216 - Endocrinology**

Physiology of endocrine and autocrine/paracrine systems and growth factors. Prerequisite: Course in both biology and physiology; one course in anatomy desirable. Alternate years, 2001-2002.

Credits: 3.00

**ASCI 220 - Lactation Physiology**

Physiological mechanisms that control and affect lactation in domestic and laboratory animals with emphasis on dairy cattle. Includes mammary anatomy, development and health, and milk synthesis. Prerequisite: One chemistry course and one course in anatomy and physiology, or Instructor permission.

Credits: 3.00

**ASCI 230 - Agricultural Policy & Ethics**

Examines American agriculture and policies from various perspectives - historical, political, ecological, technological, social, economic, and ethical. Emphasis on contemporary issues, policy options, future developments. Prerequisite: Junior standing or permission.

Credits: 3.00

**ASCI 231 - Adv Ruminant Nutr&Dairy Feed**

Integration of microbial growth and fermentation with metabolism to define nutrient requirements in ruminant animals and application to current feeding practices in dairy production systems. Prerequisite: 110. (Not offered for graduate credit.)

Credits: 2.00

**ASCI 233 - Dairy Cattle Breeding**

Setting breeding goals, making selection and mating decisions; balancing opposing forces to maximize genetic progress, and understanding the underlying genetic principles. Prerequisites: A genetics course, a statistics course, and permission. (Not offered for graduate credit.)

Credits: 2.00

**ASCI 234 - Advanced Dairy Management**

An intensive, residential program at the Miner Institute providing an in-depth experiential program in the management of the dairy herd. Prerequisites: ASCI 110, 134 or 135 or equivalents. Fifteen hours. (Not offered for graduate credit.)  
Credits: 15.00

**ASCI 252 - FARMS Senior Project**

The students will conduct independent research focused on a project proposal that was developed and approved in previous course work (ASCI 156). Prerequisite: FARMS Program enrollment; ASCI 156.  
Credits: 4.00

**ASCI 263 - Clin Top:Companion Animal Med**

The use of case studies in companion animal medicine to develop clinical, analytical, and diagnostic skills. Prerequisite: ASCI 118; ASCI 141; Junior standing.  
Credits: 3.00

**ASCI 264 - Clin Topics:Livestock Medicine**

An advanced study of diseases in cattle, sheep, goats, and pigs, emphasizing disease detection, pathobiology, treatment and prevention. Prerequisites: ASCI 118, ASCI 141, Junior standing.  
Credits: 3.00

**ASCI 272 - Adv Top:Zoo,Exotic,Endang Spec**

An exploration of modern zoo philosophy and ethics and the extent of human intervention necessary for the preservation of endangered species. Prerequisite: ASCI 171 and Instructor permission.  
Credits: 3.00

**ASCI 281 - Animal Sciences Career Seminar**

Discussion and workshop activities exploring careers in animal and food sciences. Includes resume preparation and interview training. Prerequisite: Sophomore standing ASCI major. Not offered for graduate credit.  
Credits: 1.00

**ASCI 297 - Spec Topics in Animal Science**

Written courses, seminars or topics beyond the scope of existing offerings. See Schedule of Courses for specific titles. Prerequisite: Department Chair permission. May enroll more than once for maximum of fifteen hours.  
Credits: 4.00

**ASCI 298 - Spec Topics in Animal Science**

Written courses, seminars or topics beyond the scope of existing offerings. See Schedule of Courses for specific titles. Prerequisite: Department Chair permission. May enroll more than once for maximum of fifteen hours.  
Credits: 4.00

**ASCI 301 - ASCI Graduate Journal Club**

Students learn to critically read and discuss current scientific literature in terms of scientific method and merit. Pre/corequisite: Graduate standing.

Credits: 1.00

**ASCI 302 - ASCI Graduate Seminar**

Topics of current faculty and graduate student interest presented in a seminar-discussion format. Pre/corequisite: Graduate standing.

Credits: 1.00

**ASCI 303 - Research Proposal Writing**

Students develop and write a formal proposal for their graduate research project. Pre/co-requisite: Graduate standing; must be taken prior to/during the semester of student's first committee meeting.

Credits: 1.00

**ASCI 391 - Master's Thesis Research**

Credits: 1.00 to 9.00

**ASCI 392 - Independent Literature Rsch**

Reading and literature research culminating in a paper on a topic of current interest in Animal Sciences.

Credits: 3.00

**ASCI 395 - Special Topics**

Credits: 3.00

**ASCI 491 - Doctoral Dissertation Research**

Credits: 1.00 to 12.00

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## Courses in Animal, Nutrition & Food Sci (ANFS)

### ANFS 395 - Special Topics

Lectures, laboratories, readings, or projects relating to topics in animal, nutrition and food sciences. Pre/co-requisite: Graduate standing.

Credits: 3.00

### ANFS 491 - Doctoral Dissertation

Credits: 1.00 to 18.00



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## Courses in Anthropology (ANTH)

### ANTH 021 - Human Cultures

Introduction to cultural anthropology focusing on the life ways of non-Western societies and how anthropologists study them.

Credits: 3.00

### ANTH 023 - Anthropology Third World Dev

A survey of the role of applied anthropology in the understanding and analysis of development efforts to alleviate (mostly) third world problems.

Credits: 3.00

### ANTH 024 - Prehistoric Archaeology

Examination of the origins and development of culture from the earliest human fossils through the appearance of civilization; the nature of archaeological data and interpretations.

Credits: 3.00

### ANTH 026 - Biological Anthropology

Introduction to the study of the evolution and physical variation of humanity from a biocultural perspective.

Credits: 3.00

### ANTH 028 - Linguistic Anthropology

Introduction to linguistic anthropology, focusing on language and communication as they pertain to human culture and human social interaction.

Credits: 3.00

### ANTH 064 - Native Americans of Vermont

Vermont's native peoples from their earliest appearance in the region until today. Archaeological and ethnographic data reviewed in the broader perspective of

aboriginal Northeastern cultural history. Alternate years.

Credits: 3.00

**ANTH 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 6.00

**ANTH 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**ANTH 140 - Primates and Anthropology**

A survey of behavior and anatomy of nonhuman primates (monkeys, apes and prosimians) from an anthropological perspective. Pre/co-requisite: ANTH 021 or ANTH 026.

Credits: 3.00

**ANTH 151 - Anth of East Europe**

Survey of cultures of Central and Eastern Europe during the socialist and post-socialist periods with an emphasis on social, cultural, and economic transformation since 1985. Pre/co-requisite: ANTH 021 or a 100-level Russia/East European Studies course.

Credits: 3.00

**ANTH 152 - Cultures of East Asia**

Introduction to the cultures of East Asian societies with a focus on issues of cultural representation, sociocultural diversity, social change, historical interactions, and cultural comparison. Prerequisite: Anth 21

Credits: 3.00

**ANTH 160 - North American Indians**

Ethnographic survey of major Native American cultures of Mesoamerica and the U.S. against background of aboriginal culture history, and problems of contact with European cultures. Prerequisite: ANTH 021. Alternate years.

Credits: 3.00

**ANTH 161 - Cultures of South America**

Ethnographic survey of major native American cultures south of Mesoamerica against background of aboriginal culture history, and their relation to present day culture spheres. Prerequisite: 21. Alternate years.

Credits: 3.00

**ANTH 162 - Cultures of Africa**

Ethnographic survey of representative native societies of sub-Saharan Africa and major colonial/immigrant minorities emphasizing changes resulting from colonialism, independence, and modernization. Prerequisite: ANTH 021. Alternate

years.

Credits: 3.00

**ANTH 163 - South Pacific Cultures**

Survey of major cultural areas of the South Pacific including problems of prehistory, contact with Western colonialism, and contemporary life. Prerequisite: ANTH 021. Alternate years.

Credits: 3.00

**ANTH 165 - Peoples of South Asia**

Culture and social organization of peoples of Pakistan, India, Bangladesh, and Sri Lanka. Theoretical issues in anthropological analysis of these societies discussed. Prerequisite: ANTH 021. Alternate years.

Credits: 3.00

**ANTH 166 - Peoples of the Middle East**

Culture and social organization of peoples living in lands from Morocco to Afghanistan, including a consideration of Islam. Prerequisite: ANTH 021. Alternate years.

Credits: 3.00

**ANTH 167 - Native Peoples of Canada**

Traditional life-ways of the native peoples of Canada, Indian, and Inuit; contemporary issues in native life in Canada. Prerequisites: ANTH 021 or GEOG 052 or HST 065 or HST 066. Alternate years.

Credits: 3.00

**ANTH 169 - Latinos in the United States**

Survey of peoples of Latino/Hispanic descent living in the U.S. Course examines their similarities and differences in history, ethnic identification, and cultural practices. Prerequisite: ANTH 021.

Credits: 3.00

**ANTH 172 - Gender, Sex and Culture**

Cross-cultural study of gender, sex and sexuality, including exploring the cultural construction of categories and cultural practices related to gender, sex and sexuality. Pre/co-requisite: ANTH 021.

Credits: 3.00

**ANTH 174 - Culture, Health and Healing**

Introduction to medical anthropology. Social and cultural perspectives on health and illness experiences, doctor-patient interactions, healing practices, and access to health and health care. Pre/co-requisite: ANTH 021 or three credits of Sociology. Cross-listed with: SOC 155.

Credits: 3.00

**ANTH 176 - Topics in Linguistic Anthropol**

Intermediate level special topics in linguistic anthropology. Pre/co-requisites: ANTH 28 or CMSI 80.  
Credits: 3.00

**ANTH 178 - Sociolinguistics**

Exploration of language and nonverbal interactions as cultural activities. Focus on rules and patterns people display appropriate to communication and social interaction. Prerequisite: 28.  
Credits: 3.00

**ANTH 179 - Environmental Anthropology**

Introduction to how culture mediates human- environmental interactions. Topics include cultural, spiritual, and political ecology; forms of resource management; environmentalism; sustainable development; and environmental justice. Pre/co-requisite: ANTH 021, ANTH 023, and ANTH 024 or Instructor permission.  
Credits: 3.00

**ANTH 180 - Psychological Anthropology**

Cross-cultural study of the individual in a sociocultural context examining cognition and culture, symbols, alternative states of consciousness, human sexuality, deviance and madness, and ethnotherapy. Prerequisite: 21. Alternate years.  
Credits: 3.00

**ANTH 181 - Law, War and Disorder**

Introduction to the anthropology of law and conflict management emphasizing the cultural fora and social organization of disputes and efforts to deal with conflict. Prerequisite: ANTH 021.  
Credits: 3.00

**ANTH 187 - Race and Ethnicity**

Description and analysis of ethnic, racial, and religious groups in the U.S. Examination of social/cultural patterns in the larger society and in these groups themselves. Prerequisite: ANTH 021. Cross-listed with: SOC 119.  
Credits: 3.00

**ANTH 188 - Historical Archaeology**

Survey of field, lab, and archival research methods; specialized studies of material culture; selected topics on ethnicity in the Americas, gender and status. Prerequisites: ANTH 024. Alternate years.  
Credits: 3.00

**ANTH 189 - Aging in Cross-Cultural Persp**

Aging from an anthropological perspective. Topics include the biology of aging; aging in hunting, pastoral, fishing, and horticultural societies; aging in contemporary ethnic America. Prerequisites: 21 or Sociology 20. Alternate years.



Credits: 3.00

**ANTH 190 - ISSP Thesis**

Independent study for students enrolled in Integrated Social Sciences Program; final product is thesis. Prerequisite: Enrollment in ISSP courses.

Credits: 3.00

**ANTH 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**ANTH 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 6.00

**ANTH 197 - Readings & Research**

Credits: 3.00

**ANTH 198 - Readings & Research**

Credits: 3.00

**ANTH 200 - Field Work in Archaeology**

Methods and techniques of archaeological investigation in field situations and the laboratory analysis of data. Prerequisites: 24, one 100-level course in anthropology or history, instructor's permission. Summers only.

Credits: 6.00

**ANTH 201 - Practicum & Internship**

Supervised service or research integrating theoretical and practical anthropological issues. Prerequisite: Nine hours of anthropology. UG only.

Credits: 6.00

**ANTH 210 - Archaeological Theory**

Development of archaeology from the 19th century to the present including concepts of form, space and time, intellectual attitudes, current systems theory, and research strategies. Prerequisites: ANTH 024, one 100-level Anthropology course; or HP 201; or graduate standing in Historic Preservation Program, or HIST 121, HIST 122, or HIST 149. Alternate years.

Credits: 3.00

**ANTH 220 - Develop & Applied Anthropology**

Seminar examines the application of anthropological knowledge and methodologies to alleviate social problems around the world, with a special focus on the cultural politics of expertise. Prerequisites: ANTH 23, three 100-level courses, or instructor's permission. Alternate years.

Credits: 3.00

### **ANTH 225 - Anthropological Theory**

Schools of anthropological thought examined in relation to data on non-Western societies and the historical and social context in which the anthropologist works.

Prerequisites: ANTH 021, one 100-level course.

Credits: 3.00

### **ANTH 228 - Social Organization**

Examination of the basic anthropological concepts and theories used in the cross-cultural analysis of kinship and marriage. Prerequisites: ANTH 021, one 100-level course.

Credits: 3.00

### **ANTH 250 - Museum Anthropology**

The cultural context of selected archaeological and ethnographic collections at Fleming Museum; cataloguing, conservation, research, and interpretation of objects; exhibition design and ethical issues. Prerequisites: Junior standing; Anthropology, Art History, Studio Art majors and minors. Alternate years.

Credits: 3.00

### **ANTH 276 - Adv Topics in Linguistics**

Advanced special topics in linguistics, sociolinguistics and linguistic anthropology.

Pre/co-requisites: ANTH 028 and one 100-level Anthropology course or permission of the Instructor.

Credits: 3.00

### **ANTH 283 - Colonialism**

The concepts, ideologies, and practice(s) of colonialism within a sociocultural and historical context emphasizing the cultures of the colonizer and the colonized and the interaction thereof. Prerequisites: ANTH 021, one 100-level course, or ANTH 021, six hours in the social sciences. Alternate years.

Credits: 3.00

### **ANTH 284 - Linguistic Anthropology Mthds**

Exploration of key methodologies in linguistic anthropology, including theories and practice of eliciting linguistic data, conducting interviews, transcribing audio- and video-taped interactions, and analyzing conversations. Pre/co-requisites: ANTH 28 or CMSI 80 and 1 Anthropology course at the 100 level or above.

Credits: 3.00

### **ANTH 290 - Meth of Ethnographic Field Wrk**

Examination of theoretical and ethical premises of field work methodology with practical experience in participant observation, interviewing, the genealogical method, and the recording of data. Prerequisite: Twelve hours of Anthropology. Alternate years.

Credits: 3.00

**ANTH 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisites: ANTH 021, one 100-level course.

Credits: 6.00

**ANTH 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisites: ANTH 021, one 100-level course.

Credits: 4.00

**ANTH 297 - Advanced Readings & Research**

Prerequisite: Junior/Senior standing.

Credits: 1.00

**ANTH 298 - Advanced Readings & Research**

Prerequisite: Junior/Senior standing.

Credits: 3.00

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## Courses in Area & International Studies (AIS)

### **AIS 091 - Introduction to Area**

(A) Introduction to Canada: A team-taught introduction to Canada through interdisciplinary perspective. (B) Introduction to Russia and East Europe: An interdisciplinary overview from the perspectives of economics, fine arts, geography, history, political science, Russian language and literature, and sociology. (C) Introduction to Western Europe. Primarily designed for first-year students.

Credits: 3.00

### **AIS 093 - So Africa: Politic/Race&Culture**

An interdisciplinary introduction analyzing the forces that led to creation of that system of government known as Apartheid. Assessment of strategies and tactics of change.

Credits: 3.00

### **AIS 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

### **AIS 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

### **AIS 191 - Internships**

Approved programs of learning outside the classroom. Internships must be undertaken directly in the field and involve activity in which substantive learning about the program area can take place.

Credits: 1.00 to 6.00

**AIS 192 - Internships**

Approved programs of learning outside the classroom. Internships must be undertaken directly in the field and involve activity in which substantive learning about the program area can take place.

Credits: 3.00

**AIS 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**AIS 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**AIS 197 - Readings & Research**

Credits: 3.00

**AIS 198 - Readings & Research**

Credits: 1.00 to 3.00

**AIS 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: Permission by Executive Committee of International Studies. Other area courses offered by individual academic departments.

Credits: 3.00

**AIS 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: Permission by Executive Committee of International Studies. Other area courses offered by individual academic departments.

Credits: 4.00

**AIS 297 - Advanced Readings & Research**

Independent study of a specific area subject or theme with an approved instructor. Prerequisites: Junior/senior standing, and permission of area Program Director.

Credits: 6.00

**AIS 298 - Advanced Readings & Research**

Independent study of a specific area subject or theme with an approved instructor. Prerequisites: Junior/senior standing, and permission of area Program Director.

Credits: 3.00



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## Courses in Art (ART)

### ART 001 - Drawing

Introductory study of visual experience through drawing and its transformation of the three-dimensional visual world onto a two-dimensional surface. Emphasis varies with instructor.

Credits: 3.00

### ART 002 - Two-Dimensional Studies

A studio course exploring through classroom projects how we perceive space and how we work with materials and concepts to organize two-dimensional surfaces.

Credits: 3.00

### ART 003 - Three-Dimensional Studies

Introductory study of the manipulation of actual space in diverse media. Emphasis varies with instructor.

Credits: 3.00

### ART 004 - Intro to Film/Video Production

Introductory study of the principles and properties of four-dimensional media, including the mechanical and electronic phenomena behind the creation of a moving image.

Credits: 3.00

### ART 005 - Western Art: Ancient - Medieval

Introduction to the visual arts, primarily painting, sculpture, and architecture in the Western world from prehistoric through Gothic.

Credits: 3.00

### ART 006 - Western Art: Renaissance-Modern

Introduction to the visual arts, primarily painting, sculpture, and architecture in the

Western world from Renaissance to present. Prerequisite: It is recommended that ART 005 be taken before ART 006.

Credits: 3.00

**ART 008 - Asian Art**

Introduction to the artistic traditions and major architectural monuments of India, China, Japan, and Southeast Asia.

Credits: 3.00

**ART 011 - Introduction to Fine Metals**

Emphasizes design in the third dimension. Basic metal fabrication techniques, soldering, forming, forging, fusing, and casting. Drawing required. Fall semester only.

Credits: 3.00

**ART 095 - Introduction to Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**ART 096 - Introduction to Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**ART 111 - Fine Metals**

Continuation of three-dimensional fabrication with work in chasing, repousse, casting, stone setting, and more complex methods of construction. Design and drawing required. Prerequisite: ART 011. Fall semester only. Credits 0 to 3.

Credits: 3.00

**ART 113 - Clay: Hand Building**

Investigation of surfaces and three-dimensional forms. Focus on variety of construction methods, surface treatment, and firing techniques. Related clay and glaze technology. Prerequisites: ART 001 or ART 002, and ART 003.

Credits: 3.00

**ART 114 - Clay: Wheel Throwing**

Development of throwing skills and the capacity to create a range of forms. Investigation of surface treatment techniques such as slip painting and glazing. Low-fire and stoneware firing. Related clay and glaze technology. Prerequisites: ART 001 or ART 002, and ART 003.

Credits: 3.00

**ART 115 - Intermediate Drawing**

Intense investigation of drawing and elements related to the discipline. The figure used to introduce drawing exercises dealing with contour, gesture, color, and

compositional geometry. Prerequisite: ART 001 and ART 002.

Credits: 3.00

**ART 116 - Drawing From the Figure**

Drawing from the model, emphasizing in-depth studies in different media.

Prerequisite: ART 001 and ART 002.

Credits: 3.00

**ART 121 - Painting**

Painting as an investigation of color, space, and visual perception using traditional motifs and exploring individually developed directions. Prerequisites: 1 and 2.

Credits: 3.00

**ART 131 - Printmaking: Etching**

Basic procedures in zinc plate printing, stressing design and technical control of aquatint, etching, drypoint and embossment. Prerequisites: ART 001 and ART 002. Offered alternate semesters. Credits 3.

Credits: 3.00

**ART 132 - Printmaking: Silkscreen**

Basic procedures in stencil printing, stressing design and technical control of stencil cutting, glue and tusche resist and photo-silkscreening. Prerequisites: ART 001 and ART 002. Offered alternate semesters.

Credits: 3.00

**ART 133 - Printmaking: Lithography**

Basic procedures in planographic printing from stone, stressing design and technical competence. Intensity of investigation varies with individual student.

Prerequisites: ART 001 and ART 002.

Credits: 3.00

**ART 137 - Photography**

Photographic processes as methods of seeing, emphasizing visual discovery through informed manipulation of materials. Students explore light, camera, photosensitive materials relating to photographic realities. Prerequisite: one of the following: ART 001, ART 002, ART 004.

Credits: 3.00

**ART 138 - Color Photography**

Exploration of color films, cameras, and color printing processes as a means for recording, enhancing and expressing students' subjective experiences.

Prerequisite: one of the following: ART 001, ART 002, ART 004. Credits 3.

Credits: 3.00

**ART 139 - Animation**

Techniques of single frame filmmaking, including drawing on film, producing a



flipbook, animating a repetitive form, a two-dimensional sequence, and a three-dimensional sequence. Prerequisite: any two of the following: ART 001, ART 002, ART 003, ART 004.

Credits: 3.00

#### **ART 140 - Hist of Optical Media as Art**

Theory and development of the art of "optical media:" photography, film, and video. Emphasis on discovery and explication of technical, aesthetic, and expressive properties. Prerequisite: one of the following: ART 006, FILM 005, FILM 006.

Credits: 3.00

#### **ART 141 - Sculpture**

Exploration of manipulative materials. Prerequisite: ART 003.

Credits: 3.00

#### **ART 142 - Art from Scraps**

Students explore in a series of projects how discarded objects and materials from everyday life, the "found object" tradition, can become materials for sculpture.

Prerequisite: ART 002 and ART 003.

Credits: 3.00

#### **ART 143 - Intermed Film/Video Production**

Exploration of the principles and properties of sound and moving image through projects in synchronous sound mediamaking and live studio production.

Prerequisite: ART 004 and either ART 001, ART 002, or ART 003, or instructor permission.

Credits: 3.00

#### **ART 144 - Digital Art**

Exploration of the computer as an artistic medium, focusing on a variety of approaches for creating and displaying imagery. Prerequisite: ART 002.

Credits: 3.00

#### **ART 145 - Graphic Design**

The application of graphic design principles to practical problems, including the impact of popular design on society, and the exploration of visual elements in contemporary printing processes. Prerequisite: ART 001 or ART 002.

Credits: 3.00

#### **ART 146 - Egypt & the Ancient Near East**

The development of sculpture, painting, and architecture in Mesopotamia and Egypt 3000-300 B.C. Prerequisite: ART 005.

Credits: 3.00

#### **ART 147 - Visual Environment**

Exploration of public spaces, structures, architectural detail, landscaping, roadways, lighting, etc. Field trips; meetings with planners and architects; projects. Prerequisites: ART 001, ART 002, or ART 003.  
Credits: 3.00

**ART 148 - Greek Art**

Development of painting, sculpture, architecture, and related arts in Greek lands 3000-30 B.C. Prerequisite: ART 005.  
Credits: 3.00

**ART 149 - Roman Art**

Examination of the artistic experiments made by Roman painters, sculptors, and architects from 3rd century B.C. to 5th century A.D. Prerequisite: ART 005.  
Credits: 3.00

**ART 155 - Topics in Medieval Art**

Selected aspects of European art from the end of the Roman Empire through the Gothic period. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: ART 005.  
Credits: 3.00

**ART 158 - Northern European 1400-1600**

Netherlandish and German art of the period. Special attention to Jan van Eyck, Rogier van der Weyden, Hugo van der Goes, Durer, Bosch, and Bruegel. Prerequisite: ART 005.  
Credits: 3.00

**ART 161 - Italian Renaissance Painting**

Painting in Italy from Gothic innovations of Giotto and Duccio through establishment of 15th-century Renaissance style to the High Renaissance works of Leonardo da Vinci, Raphael, Michelangelo and Titian. The development of Venetian painting. Prerequisite: ART 005.  
Credits: 3.00

**ART 164 - Italian Renaissance Sculpture**

Sculpture in Italy from its Gothic sources through the Renaissance. Special attention to Ghiberti, Donatello, and Michelangelo. Prerequisite: ART 005.  
Credits: 3.00

**ART 165 - Topics European Art 1600-1800**

Selected aspects of the painting, sculpture, and architecture of the Baroque, Rococo, and/or Neo-Classical periods. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: ART 006.  
Credits: 3.00

**ART 170 - Topics in Modern Art**

Selected aspects of the painting, sculpture, and architecture of Europe and North America during the 19th and 20th centuries. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: ART 006.

Credits: 3.00

### **ART 172 - 19th-Century European Painting**

Examination of major movements in European painting from Neo-Classicism and Romanticism through Post-Impressionism. Prerequisite: ART 006.

Credits: 3.00

### **ART 174 - 20th-Century Art**

A survey of movements and new media in European and American painting, sculpture, mixed media, performance, and the influences of film and photography on traditional media. Prerequisites: three hours of art history and preferably ART 172 or ART 181. Alternate years.

Credits: 3.00

### **ART 177 - 19th&20th Cent Arch & Design**

The theory and practice of building and design from the early 19th century to the recent past. Prerequisites: ART 006 or a course in Historic Preservation.

Credits: 3.00

### **ART 179 - Issues in Contemporary Art**

A study of selected examples of recent and current art and/or architecture. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: three hours of Art History.

Credits: 3.00

### **ART 180 - N. American Art 1600-1900**

Painting, sculpture, and architecture in the U.S. and Canada from colonial beginnings (Hispanic, Franco, Anglo) to WWI. Emphasis on the development of nationalist sensibilities as they emerge from European sources. Prerequisites: ART 006 or International Studies 91 (Canada).

Credits: 3.00

### **ART 185 - Japanese Art**

Architecture, sculpture, painting, prints, and decorative arts and their relationship to Japanese culture. Prerequisites: three hours in art history or one of the following Asian Studies courses: GEOG 058, HST 151, REL 021, REL 132, REL 141. Alternate years.

Credits: 3.00

### **ART 187 - Chinese Painting**

History of Chinese painting, emphasizing the landscape painting of the 11th to 17th centuries. Prerequisite: Six hours in art history, three at the 100 level or

instructor's permission. Alternate years.

Credits: 3.00

**ART 188 - Indian Painting**

Mural, manuscript, and miniature painting from India from the 5th to 19th centuries. Topics to include: courtly and religious patronage and regional styles.

Prerequisites: Three hours of art history or instructor's permission.

Credits: 3.00

**ART 189 - Topics in Non-Western Art**

Selected aspects of the art of an area not covered in our regular European, American, and Asian courses. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: three hours in Art History.

Credits: 3.00

**ART 190 - Internship: Art History**

Prerequisites: junior standing, six hours of 100-level course work in appropriate field, departmental permission (a contract must be obtained from and returned to the Department of Art during preregistration).

Credits: 3.00

**ART 191 - Internship: Field Experience**

Prerequisites: junior standing, six hours of 100-level courses in appropriate field, departmental permission (a contract must be obtained from and returned to the Department of Art during preregistration).

Credits: 3.00

**ART 192 - Inter Spec Topics in Asian Art**

See Schedule of Courses for specific titles. Prerequisite: three hours in Art History or Asian Studies.

Credits: 3.00

**ART 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Credits 1-4.

Credits: 4.00

**ART 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**ART 197 - Rdgs & Rsch: Tutorial in Studio**

Independent/individual research in studio art. Prerequisites: junior standing, six hours of studio art courses at 100 level, departmental permission (a contract must

be obtained from and returned to the Department of Art during preregistration).

Credits: 3.00

**ART 198 - Readings & Research**

Prerequisite: departmental permission.

Credits: 3.00

**ART 199 - Topics:Gender,Race,Ethn in Art**

Study of selected aspects of gender, "race," or ethnicity in art, and/or of the contributions of women or ethnically diverse people to the visual arts. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: three hours in Art History.

Credits: 3.00

**ART 201 - Arch, Landscape & History**

(See Historic Preservation 201.) Prerequisites: six hours advanced studies in art and architecture, permission. UG only.

Credits: 3.00

**ART 213 - Advanced Ceramics**

Advanced investigations of methods exploring content, form, surface, and color of ceramics and elements related to the discipline. Prerequisite: ART 113 or ART 114.

Credits: 3.00

**ART 215 - Advanced Drawing**

Intense investigation of drawing and elements that relate to that discipline. Emphasis on conceptual method, contemporary techniques, and both objective and non-objective source material. Prerequisite: ART 115 or ART 116.

Credits: 3.00

**ART 221 - Advanced Painting**

Advanced explorations of painting emphasizing issues of scale, materials, and techniques both traditional and contemporary, and their relationship to both the discipline and current issues. Prerequisites: ART 121.

Credits: 3.00

**ART 237 - Advanced Photography**

Continuation of 137, further exploring the implications of photography and encouraging students to use the medium to better understand their relationships to the world. Prerequisite: ART 137 or ART 138.

Credits: 3.00

**ART 241 - Advanced Sculpture**

Advanced investigation of sculpture. Students work on individual projects under supervision of instructor. Periodic group discussion and analyses of work in

progress. Prerequisite: ART 141.

Credits: 3.00

**ART 244 - Advanced Digital Art**

Advanced exploration of the computer as an artistic medium for creating imagery. Focus on using the computer to animate images and integrate sound. Emphasis on conceptual issues in digital art. Prerequisite: ART 144.

Credits: 3.00

**ART 281 - Advanced Studies in Studio Art**

Work in close consultation with faculty sponsor on a specific and advanced project. Prerequisites: senior standing, major or qualified minor in studio art, departmental permission (a contract must be obtained from and returned to the Department of Art during preregistration), six hours of 100-level courses in topic of contract.

Credits: 3.00

**ART 282 - Seminar in Western Art**

Selected topics in Western Art. See Schedule of Courses for specific offerings each semester. Prerequisites: six hours of 100-level Art History courses, including three hours in the area of the seminar; junior or senior standing. UG only.

Credits: 3.00

**ART 283 - Advanced Seminar in Studio Art**

Advanced seminar for senior studio art majors covering a range of topics. Prerequisites: senior standing, major in studio art, instructor's permission. (Not offered for graduate credit.)

Credits: 3.00

**ART 285 - Seminar in Asian Art**

Prerequisites: One of the following: ART 008, ART 185, ART 187, ART 188, or ART 196 (Asian); three additional hours of 100-level courses either in art history or Asian Studies.

Credits: 3.00

**ART 295 - Special Topics in Studio Art**

Advanced work in existing departmental offerings. Prerequisite: instructor's permission only. UG only.

Credits: 3.00

**ART 296 - Adv Special Topics: Art History**

See Schedule of Courses for specific titles.

Credits: 3.00

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## Courses in Art Education (EDAR)

### **EDAR 177 - Curriculum & Pract in Elem Art**

Study and implementation of curriculum in elementary school. Students work directly in an elementary classroom. Lectures and discussions. Prerequisite: Eighteen hours Studio Art; Junior standing.

Credits: 4.00

### **EDAR 178 - Curriculum&Pract Middle/HS Art**

Study and implementation of curriculum in middle and high school. Students work directly in a middle or high school. Lectures and discussions. Prerequisite: Eighteen hours Studio Art; Junior standing.

Credits: 4.00

### **EDAR 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisites: Twelve hours in education and related areas. One to six hours.

Credits: 4.00

### **EDAR 283 - Current Issues in Art & Ed**

Research and discussion of issues relevant to contemporary art and the teaching of art. Prerequisite: Senior standing or permission.

Credits: 3.00

### **EDAR 284 - Current Issues in Art & Ed**

Research, discussions, and field work relevant to contemporary art and the teaching of art. Prerequisite: Junior standing or permission.

Credits: 3.00

### **EDAR 295 - Laboratory Experience in Educ**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences; One to six hours.

Credits: 3.00



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## Courses in Astronomy (ASTR)

### **ASTR 005 - Exploring the Cosmos**

Survey of ancient astronomy, planets and moons, stars and their evolution, galaxies and quasars, and Big-Bang cosmology. Includes night sky observations.

Credits: 3.00

### **ASTR 023 - Astr Lab I: Measuring the Sky**

Measurements of the properties of the planets, stars, and galaxies using graphical analysis, computer simulations and photographs. Prerequisites: Concurrent enrollment or credit in ASTR 005.

Credits: 1.00

### **ASTR 053 - Moons & Planets**

Celestial mechanics, formation of the stars, and planetary materials. Planets, satellites, asteroids, meteors, and comets. Planetary surfaces, interiors, and atmospheres. Origin of life. Prerequisites: ASTR 005 or other introductory science course.

Credits: 3.00

### **ASTR 055 - The Big Bang**

Ancient cosmologies, beginning of time, origin of matter, cosmic background radiation, antimatter and dark matter, the expanding universe and origin of structure. Prerequisites: ASTR 005 or other introductory science course.

Credits: 3.00

### **ASTR 057 - Hist/Pract Ancient Astronomy**

A cross-cultural survey of astronomical practices of ancient peoples. Sky watching, time reckoning and calendar making. Constellations, astrological practices, and planetary theories. Prerequisites: ASTR 005 or other introductory science course.

Credits: 3.00

**ASTR 257 - Modern Astrophysics**

Prerequisite: One 100-level course in physical science or Engineering. Cross-listed with PHYS 257.

Credits: 3.00

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## Courses in Athletic Training (AT)

### AT 157 - Prevention & Care Athletic Inj

An introduction to athletic training. Course focuses on prevention, recognition, and care of injuries incurred by the physically active.

Credits: 3.00

### AT 158 - Directed Obsv in Athletic Trng

A laboratory sequence offered for those students seeking admission into the Athletic Training Education Program. Course includes development of clinical skills and 60 clinical experience hours. Pre/co-requisites: 158 must be taken concurrently with 157.

Credits: 4.00

### AT 159 - Practicum in Athletic Trng I

Course one in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment. Students are provided clinical assignments. Pre/co-requisite: Acceptance into the Athletic Training Education Program.

Credits: 2.00

### AT 160 - Practicum in Athletic Trng II

Course two in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment. Students are provided clinical assignments. Pre/co-requisite: Acceptance into the Athletic Training Education Program.

Credits: 2.00

### AT 161 - Practicum in Athletic Trng III

Course three in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment. Students are provided clinical assignments. Pre/co-requisites: Acceptance into the Athletic Training Education Program.

Credits: 2.00

**AT 162 - Practicum in Athletic Trng IV**

Course four in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment. Students are provided clinical assignments. Pre/co-requisite: Acceptance into the Athletic Training Education Program.

Credits: 2.00

**AT 184 - Injury Eval & Recognition I**

Evaluation and recognition of injuries to lower extremities and spine. Areas covered include injury mechanisms, etiology, pathology, and clinical signs and symptoms. Pre/co-requisites: 157 and 158.

Credits: 4.00

**AT 185 - Injury Eval & Recognition II**

Evaluation and recognition of injuries to head, neck, and upper extremities. Areas covered include injury mechanisms, etiology, pathology, and clinical signs and symptoms. Pre/co-requisites: AT 184.

Credits: 4.00

**AT 186 - Therapeutic Modalities**

Scientific basis and physiological effects of various therapeutic modalities utilized in the treatment and rehabilitation of musculoskeletal injuries. Emphasis on application of modalities within the framework of the healing process. Pre/co-requisite: AT 157, AT 158.

Credits: 3.00

**AT 187 - Rehabilitation Techniques**

Post-injury and post-operative rehabilitation and conditioning techniques involved in returning an active individual to normal and athletic activity. Pre/co-requisite: AT 157, AT 158, AT 184.

Credits: 3.00

**AT 188 - Administration in Athl Trng**

An examination of topics related to administration, budget management, health insurance issues, and policies/procedures in the profession of athletic training. Prerequisite: AT 157, AT 158.

Credits: 2.00

**AT 190 - Internship in Athletic Trng**

Supervised field work in off-campus experiences in settings including: high-school, college/university, clinic, and professional sports. May be retaken for credit. Pre/co-requisites: Senior standing and completion of 800 clinical experience hours.

Credits: 7.00

**AT 195 - Special Topics in Athl Trng**

Contemporary issues in the field of Athletic Training. Topics include: pharmacology, general medical conditions and disabilities, male & female health issues, and psychology in sport. Prerequisites: Junior standing and Athletic Training major.

Credits: 6.00

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## Courses in BioCore (BCOR)

### BCOR 011 - Exploring Biology

Exploring biology from cells to organisms. Topics include origins of life, ancestral organisms, uni- and multi- cellular energetics, evolution of respiration and metabolism, and the genetic code. Credit not given for both BCOR 011 and BIOL 001. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031 or CHEM 032.  
Credits: 4.00

### BCOR 012 - Exploring Biology

An evolutionary perspective to exploring biology. Topics include: patterns of inheritance, Darwinian evolution, evolution of biodiversity, ecology of organisms, human effects on biological systems. Credit not given for both BCOR 012 and BIOL 002. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031 or CHEM 032.  
Credits: 4.00

### BCOR 101 - Genetics

The basis of inheritance, covering topics from classical genetics to modern molecular studies. Analysis of genetic data emphasized, from prokaryotic, animal, and plant systems. Pre/co-requisites: Biol 1,2 or BCOR 11,12, Chemistry 31,32, organic chemistry recommended.  
Credits: 3.00

### BCOR 102 - Ecology and Evolution

Ecosystem and community structure; population growth; species interactions and niche dynamics; population and chromosomal genetics; speciation in fossil records; ecology of animal behavior; applied ecology. Pre/co-requisites: Biol 1,2 or BCOR 11,12, Math 19 or 21.  
Credits: 4.00

**BCOR 103 - Molecular and Cell Biology**

Explores the fundamental processes of life. Topics include cellular metabolism; structure and function of organelles; cell cycle; signal transduction; biology of cancer. Pre/co-requisites: Biol 1,2 or BCOR 11,12, Chemistry 31, 32 (Chemistry 141, BCOR 101 recommended).

Credits: 4.00

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## Courses in Biochemistry (BIOC)

### **BIOC 191 - Undergraduate Research**

Participation in a research program currently being pursued by a faculty member of department. Written report due at end of each semester. Prerequisites: Chemistry 31, 32 or 35, 36. Some programs may require additional courses in chemistry. Credit as arranged, up to four hours per semester.

Credits: 1.00 to 4.00

### **BIOC 192 - Undergraduate Research**

Participation in a research program currently being pursued by a faculty member of department. Written report due at end of each semester. Prerequisites: Chemistry 31, 32 or 35, 36. Some programs may require additional courses in chemistry. Credit as arranged, up to four hours per semester.

Credits: 1.00 to 4.00

### **BIOC 196 - Intermediate Special Topics**

Credits: 3.00

### **BIOC 205 - Biochemistry I**

Introduction to chemistry and structure of biological macromolecules; examination of mechanisms of chemical processes in biological systems including enzyme catalysis, biosynthesis, regulation, and information transfer. Prerequisites: CHEM 142 or 144. Crosslisted with CHEM 205 and MMG 205. UG only.

Credits: 3.00

### **BIOC 206 - Biochemistry II**

Continuation of Biochemistry I. Biochemistry of nucleic acids; nucleic acid based processes, such as replication and transcription; cellular Prerequisite: 205. Crosslisted with CHEM 206 and MMG 206. information transfer, genomics, and proteomics. UG only.



Credits: 3.00

**BIOC 207 - Biochemistry Lab**

Introduction to biochemical tools, including spectrometry, chromatography, and electrophoresis; natural and recombinant enzyme isolation; assays of DNA-modifying enzymes; computer-based structure/function exercises. Corequisites: 205 or 206. Crosslisted with CHEM 207 and MMG 207. UG only.

Credits: 3.00

**BIOC 212 - Biochemistry of Human Disease**

Molecular approach to genetic, metabolic, and infectious diseases; recombinant DNA technology and medicine; molecular biology of cancer. Prerequisites: Chemistry 42 or 141.

Credits: 3.00

**BIOC 240 - Macromol Struct Prot&Nucl Acid**

Introduction to structural biology and macromolecular structure with an emphasis on protein-protein and protein-nucleic acids interactions. Prerequisites: Biology 1,2; Organic Chemistry; Junior standing recommended; for graduate credit. (Crosslisted with MMG 240) Alternate years; not approved

Credits: 3.00

**BIOC 301 - General Biochemistry**

Survey for science majors. Chemistry, structure, metabolism, and function of proteins, carbohydrates, lipids; enzymes, bioenergetics and respiratory processes. Prerequisites: Chemistry 141, 142 or 143, 144, and departmental permission.

Credits: 3.00

**BIOC 302 - General Biochemistry**

Survey for science majors. Amino acids, nucleic acids, protein synthesis, cellular and physiological control mechanisms. Prerequisites: Chemistry 141, 142 or 143, 144, and departmental permission.

Credits: 3.00

**BIOC 305 - Medical Biochemistry**

A survey course in human biochemistry, with particular emphasis on medical applications. Prerequisite: For medical students only.

Credits: 3.00

**BIOC 306 - Medical Biochemistry**

A survey course in human biochemistry, with particular emphasis on medical applications. Prerequisite: For medical students only.

Credits: 3.00

**BIOC 307 - Special Topics in Biochemistry**

Areas of biochemistry not treated in concurrent advanced course offerings.

Prerequisites: 301, 302 or 305-306; Chemistry 162.

Credits: 3.00

**BIOC 308 - Special Topics**

Areas of biochemistry not treated in concurrent advanced course offerings.

Prerequisites: 301, 302 or 305-306; Chemistry 162.

Credits: 3.00

**BIOC 309 - Laboratory Research Rotations**

Two sequential research projects in departmental faculty laboratories, composed of experimental work, an oral presentation, and a written report. (First semester).

Credits: 3.00

**BIOC 310 - Laboratory Research Rotations**

Two sequential research projects in departmental faculty laboratories, composed of experimental work, an oral presentation and a written report. (Second semester).

Credits: 3.00

**BIOC 351 - Proteins I: Structure&Function**

Special Topics: Introduction to concepts in protein structure and chemistry as well as exploration of ideas in a "hands on" fashion using computational resources.

Credits: 3.00

**BIOC 352 - Protein:Nucleic Acid Interact**

Structure of DNA and RNA, and the structure and assembly of nucleoprotein complexes will be described using examples from prokaryotes, yeast, viruses, and mammalian cells in culture. Prerequisites: MMG 211 or equivalent, AGBI 201 or BIOC 301 and 302 or equivalent. Crosslisting: MMG 352. Alternate years.

Credits: 3.00

**BIOC 353 - Proteins II: Enzymology**

General consideration of enzyme nomenclature, purification, assay, kinetics, mechanisms, cofactors, active sites, subunit structure, allosteric and regulatory properties, and control of multienzyme systems. Prerequisites: 301, 302, or 305-306; Chemistry 162.

Credits: 3.00

**BIOC 370 - Physical Biochemistry**

Protein interaction, solubility and fractionation, electrophoresis, sedimentation, phase rule study, diffusion, viscosity, spectrophotometry, and related topics.

Prerequisites: 301, 302 or 306; Chemistry 160 or 162.

Credits: 3.00

**BIOC 372 - Cancer Biology**

Overview of cancer biology for health science students. Foundation for cancer

research. Lecture format; interdisciplinary viewpoint; outside lectures.  
Prerequisites: 301-302 or 305-306; under special circumstances , 212.  
Credits: 3.00

**BIOC 381 - Seminar**

A review of recent developments and current literature in the various fields of biochemistry. Prerequisite: Department permission.  
Credits: 1.00

**BIOC 391 - Master's Thesis Research**

Credit as arranged.  
Credits: 1.00 to 12.00

**BIOC 392 - Independent Literature Rsch**

Reading and literature research culminating in a paper on a topic of current interest in biochemistry.  
Credits: 1.00 to 12.00

**BIOC 395 - Special Topics**

Credits: 1.00 to 12.00

**BIOC 396 - Advanced Special Topics**

Credits: 3.00

**BIOC 491 - Doctoral Dissertation Research**

Credit as arranged.  
Credits: 1.00 to 12.00



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## Courses in Biological Sciences (BSCI)

### **BSCI 195 - Biological Sciences Seminar**

Presentations and discussion of selected topics by students, staff, and invited guests. Suggested attendance for all First-Year and transfer students in Biological Science for one semester.

Credits: 1.00

### **BSCI 197 - Undergrad Research**

Special study and research activity under direction of qualified staff member. Requires written proposal and final project report. Prerequisite: Research advisor and Department Chair permission. Credit as approved with maximum of six hours for undergraduate program.

Credits: 1.00 to 6.00

### **BSCI 198 - Undergrad Research**

Special study and research activity under direction of qualified staff member. Requires written proposal and final project report. Prerequisite: Research advisor and Department Chair permission. Credit as approved with maximum of six hours for undergraduate program.

Credits: 1.00 to 6.00



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## Courses in Biology (BIOL)

### BIOL 001 - Principles of Biology

Principles of cellular biochemistry, cell biology, genetics and evolution. Topics presented: biochemistry; metabolism, cell structure and function; respiration; photosynthesis; molecular, Mendelian and population genetics; microevolution. Credit not given for both 1 and BCOR 11.

Credits: 4.00

### BIOL 002 - Principles of Biology

Principles of organismal biology; nature of scientific inquiry, plant form and function, pollination ecology, animal phylogeny illustrated by comparative anatomy and physiology; animal behavior. Credit not given for both BIOL 002 and BCOR 012.

Credits: 4.00

### BIOL 003 - Human Biology

For nonscience majors. Selected biological topics relevant to humans, such as cancer, human genetics, environmental toxicants; biological concepts necessary for understanding these problems.

Credits: 3.00

### BIOL 004 - The Human Body

Introduction to basic human anatomy and organ system physiology emphasizing normal homeostatic mechanisms and the changes that accompany common disorders and diseases. For nonscience majors.

Credits: 3.00

### BIOL 006 - Evolutionary Biology

For nonscience majors. The process of biological evolution, evidence for evolution, mechanisms of evolutionary change, origin of adaptations, evolution of

behavior, social and reproductive behavior.

Credits: 3.00

**BIOL 009 - Science As a Way of Knowing**

History of scientific method and its application to generation of knowledge. How science seeks to understand the origin and diversity of life. Lab research project.

Credits: 3.00

**BIOL 011 - See BCOR 011**

Credits: 4.00

**BIOL 012 - See BCOR 012**

Credits: 4.00

**BIOL 095 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**BIOL 096 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**BIOL 101 - See BCOR 101**

Credits: 3.00

**BIOL 102 - See BCOR 102**

Credits: 4.00

**BIOL 103 - Cell Function & Structure**

Molecules, structures, and physiology of cell membranes; energy transformations; nuclear and cytoplasmic events; extracellular matrix; cell signaling; and cell types and fates. Prerequisite: BIOL 001, BIOL 002, or BIOL 011, BIOL 012; CHEM 031, CHEM 032, CHEM 141; BIOL 101 recommended.

Credits: 4.00

**BIOL 104 - Comparative Animal Physiology**

Physiology of organs and organ systems in animals emphasizing basic principles of physiology common to all forms. Prerequisites: Biol 1,2 or 11,12; 103 recommended.

Credits: 4.00

**BIOL 191 - Research Apprenticeship**

Participation in a faculty research project. Suitable for students in first through junior years. Students must follow all departmental guidelines. Prerequisite: Departmental permission.

Credits: 3.00

**BIOL 192 - Research Apprenticeship**

Participation in a faculty research project. Suitable for students in first through junior years. Students must follow all departmental guidelines. Prerequisite: Departmental permission.

Credits: 1.00 to 3.00

**BIOL 193 - Internship in Biology**

Professional experience, containing a substantial academic component, with an off-campus organization or campus unit other than Biology Department. Students must follow all departmental guidelines. Prerequisite: Department permission.

Credits: 3.00

**BIOL 194 - Internship in Biology**

Professional experience, containing a substantial academic component, with an off-campus organization or campus unit other than Biology Department. Students must follow all departmental guidelines. Prerequisite: Department permission.

Credits: 3.00

**BIOL 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**BIOL 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**BIOL 197 - Undergraduate Research**

Individual laboratory research under faculty guidance. Students must follow departmental guidelines or be disenrolled. Six credits given only with presentation in department Research Day or approved venue. Prerequisite: Junior or senior standing, departmental permission.

Credits: 3.00

**BIOL 198 - Undergraduate Research**

Individual laboratory research under faculty guidance. Students must follow departmental guidelines or be disenrolled. Six credits given only with presentation in department Research Day or approved venue. Prerequisite: Junior or senior standing, departmental permission.

Credits: 3.00

**BIOL 202 - Quantitative Biology**

Mathematical concepts applied to biological problems such as growth, metabolism, temperature effects, kinetics, and graphic interpretation of data. Statistics not treated. Prerequisite: At least one intermediate level course in biology, Math. 9, or instructor's permission.

Credits: 3.00

**BIOL 204 - Adv Genetics Laboratory**

Discussions and Laboratories to provide experience with modern genetic techniques. Bench work and data analysis emphasized. May be repeated for credit. Prerequisites: BCOR 101

Credits: 4.00

**BIOL 205 - Adv Genetics Laboratory**

Discussions and Laboratories to provide experience with modern genetic techniques. Bench work and data analysis emphasized. May be repeated for credit. Prerequisites: BCOR 101

Credits: 4.00

**BIOL 209 - Field Zoology**

Collection, identification of invertebrates; September field work. Half of student's collection is general, identified to family; half is one or two groups identified to species. Prerequisite: BCOR 102 or 104.

Credits: 4.00

**BIOL 212 - Comparative Histology**

Anatomy of tissues, chiefly vertebrate. Tissue similarities and specializations of organs among the various groups of animals in relation to function. Prerequisite: 104.

Credits: 4.00

**BIOL 217 - Mammalogy**

Classification, identification, morphology, evolution, and distribution of mammals. Prerequisite: BCOR 102.

Credits: 4.00

**BIOL 219 - Compar/Func Vertebrate Anatomy**

(2-4) Structure, function, and phylogeny; survey of evolutionary and functional trends; investigation of the structure of all chordate groups. Prerequisite: 104 or BIOL 255. Alternate years, 2000-01.

Credits: 4.00

**BIOL 223 - Developmental Biology**

An analysis of the cellular, subcellular, molecular, and genetic mechanisms that operate during oogenesis and embryogenesis in invertebrate and vertebrate organisms. Prerequisite: BCOR 101, BIOL 103.

Credits: 3.00

**BIOL 225 - Physiological Ecology**

Processes by which animals cope with moderate, changing, and extreme environments. Prerequisites: BCOR 102, 104.



Credits: 3.00

**BIOL 238 - Winter Ecology**

Natural history and winter adaptation of plants and animals of western Maine. Field work during winter break; oral and written report completed during spring semester. Prerequisite: Instructor permission.

Credits: 3.00

**BIOL 246 - Ecological Parasitology**

Parasite-host interactions examined with evolutionary perspective. Topics include the origin of parasites, evolution of virulence, and ecological consequences of parasitism. Laboratory includes original experiments. Prerequisite: BCOR 102.

Credits: 4.00

**BIOL 254 - Population Genetics**

Methods of detecting and investigating genetic variation, as well as its causes and consequences. Applications from medicine, forensics, and environmental biology are emphasized. Pre/co-requisite: BCOR 101.

Credits: 4.00

**BIOL 255 - Comparative Physiology**

Physiology at the organ, systems, and organismal levels. Capstone course to consolidate biological concepts. Pre/co-requisites: Bio 101, 102, 103.

Credits: 4.00

**BIOL 261 - Neurobiology**

Focus on molecular and cellular aspects of the nervous system. Electrical signaling, synaptic transmission, signal transduction, neural development, plasticity and disease. Prerequisite: BCOR 103. Cross-listed with: ANNB 261.

Credits: 3.00

**BIOL 262 - Neurobiology Techniques**

Extensive study of laboratory methods used in modern research on the function of the nervous system. Techniques from electrophysiology, cell biology, biochemistry, and genetics. Pre/co-requisites: BCOR 103, BIOL 261.

Credits: 4.00

**BIOL 263 - Genetics Cell Cycle Regulation**

Molecular events during the cell cycle; mutants defective in cell cycling; comparison of normal and transformed (cancer) cell cycling. Prerequisite: BCOR 101 or instructor's permission. Alternate years, 1999-00.

Credits: 3.00

**BIOL 264 - Community Ecology**

Theoretical and empirical analyses of community structure. Topics include population growth, metapopulation dynamics, competition, predation, species

diversity, niches, disturbance succession, island biogeography, and conservation biology. Prerequisite: BCOR 102; at least Junior standing.

Credits: 3.00

**BIOL 265 - Developmental Molecular Genetics**

Current topics in developmental genetics explored through lectures and discussions of current literature; emphasis on molecular approaches.

Prerequisites: BCOR 101. Alternate years.

Credits: 3.00

**BIOL 268 - Medical Entomology**

Examines the arthropod vectors of temperate and tropical diseases that affect human health, using an ecological and a systematics approach. Prerequisites: 102 or instructor permission. UG only.

Credits: 3.00

**BIOL 269 - Plant-Animal Interactions**

Ecological and evolutionary interactions among plants and animals. Topics include herbivory, pollination, seed predation, biocontrol, and effects of global climate change. Prerequisites: Biology 1,2 or BCOR 11,12; BCOR 102 recommended. UG only.

Credits: 3.00

**BIOL 270 - Speciation and Phylogeny**

Contributions of modern research in such fields as genetics, systematics, distribution, and serology to problems of evolutionary change. Prerequisite: BCOR 101 (102 recommended). Alternate years. 1999-00.

Credits: 3.00

**BIOL 271 - Evolution**

Basic concepts in evolution will be covered, including the causes of evolutionary change, speciation, phylogenetics, and the history of life. Pre/co-requisites: BCOR 102 or permission of the Instructor.

Credits: 3.00

**BIOL 276 - Behavioral Ecology**

Adaptive significance of behavior in natural environments. Evolutionary theory applied to behavior and tested with field data. Prerequisites: 102 or instructor permission. UG only.

Credits: 3.00

**BIOL 281 - Biology Seminar**

Review and discussion of current zoological research. Attendance required of Biology graduate students. Seniors in zoological research programs may enroll for 0 credits. Credits 0-1.

Credits: 0.00

**BIOL 282 - Eco Lunch**

Review and discussion of current research. Attendance required of Biology Graduate students. Seniors in research programs may enroll for 0 credits.  
Credits: 0.00 to 1.00

**BIOL 283 - Ecology-Evolution Journal Club**

Review and discussion of current research. Attendance required of Biology graduate students. Seniors in zoological research programs may enroll for 0 credits. Credits 0-1.  
Credits: 0.00

**BIOL 284 - Cell Lunch**

Review and discussion of current research. Attendance required of Biology Graduate students. Seniors in research programs may enroll for 0 credits.  
Credits: 0.00 or 1.00

**BIOL 285 - John Dewey Honors Crs: Biology**

Advanced Biology course for John Dewey Honors Students with Biology/Zoology/Environmental Sciences Majors. Requires enrollment in approved 200-level course and includes additional assignments. Prerequisites: Departmental permission. UG only.  
Credits: 0.00

**BIOL 288 - Seminar in Forensic Biology**

Capstone course in seminar format for undergraduates concentrating in Forensic Biology in the Biology major; discussions, readings, guest speakers. Pre/co-requisite: CHEM 141, CHEM 142, and BCOR 101.  
Credits: 1.00

**BIOL 295 - Special Topics**

See Schedule of Courses for specific titles.  
Credits: 4.00

**BIOL 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.  
Credits: 4.00

**BIOL 297 - Advanced Undergraduate Rsrch**

Research under faculty guidance. Enroll following departmental guidelines and with departmental permission. Up to six credits; six received only with presentation in an approved venue. Pre/co-requisites: Junior or Senior Standing.  
Credits: 3.00

**BIOL 298 - Advanced Undergraduate Rsrch**

Research under faculty guidance. Enroll following departmental guidelines and

with departmental permission. Up to six credits; six received only with presentation in an approved venue. Pre/co-requisites: Junior or Senior Standing.

Credits: 3.00

**BIOL 301 - Cell Biology**

Advanced survey of cell organelles, their composition, origin, and the relationship between their structure and function. Emphasis on recent literature and current controversies. Prerequisite: CHEM 142; Graduate standing in Biology or Instructor permission. Cross-listed with: CLBI 301.

Credits: 3.00

**BIOL 302 - Specialized Cells & Cell Proc**

Current issues and research in the field of plant, invertebrate, mammalian cell, and molecular biology. Prerequisite: BIOL 301. Cross-listed with: CLBI 302.

Credits: 3.00

**BIOL 371 - Graduate Colloquium**

Topics of current faculty and graduate student interest presented in a seminar-discussion format. Specific titles for colloquia will be listed in the course schedule.

Credits: 1.00

**BIOL 381 - Special Topics**

Readings with conferences, small seminar groups, or laboratories intended to contribute to the programs of graduate students in phases of zoology for which formal courses are not available. Prerequisite: An undergraduate major in life science.

Credits: 4.00

**BIOL 391 - Master's Thesis Rsch**

Credit as arranged.

Credits: 1.00 to 10.00

**BIOL 491 - Doctoral Dissertation Research**

Credits: 1.00 to 10.00



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## Courses in Biomedical Technology (BMED)

### **BMED 282 - Research Methods**

Laboratory focused course covering methods of eukaryotic cell culture, viability studies, and protein isolation and analysis.

Credits: 4.00

### **BMED 287 - Research I**

Independent research project - Fall semester.

Credits: 3.00

### **BMED 288 - Research II**

Independent research project - Spring semester.

Credits: 3.00

### **BMED 293 - Research Concepts**

Discussion of research methodology including analysis of primary scientific literature. Spring.

Credits: 1.00

### **BMED 297 - Undergraduate Research**

Research projects sponsored by faculty. Prerequisite: Instructor permission. Spring, Fall.

Credits: 1.00 to 6.00

### **BMED 298 - Undergraduate Research Seminar**

Current literature related to student research project will be presented and discussed. Students will be required to present a seminar on their research project. Prerequisite: BMED 284, BMED 285, BMED 286 or BMED 297; advanced standing. Spring.

Credits: 3.00

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## Courses in Biostatistics (BIOS)

### **BIOS 200 - Med Biostatistics&Epidemiology**

Introductory design and analysis of medical studies. Epidemiological concepts, case-control and cohort studies. Clinical trials. Students evaluate statistical aspects of published health science studies. Prerequisite: Statistics 141 or 143 or 211. Three hours. Cross-listing: Statistics 200.

Credits: 3.00

### **BIOS 221 - Statistical Methods II**

Multiple regression and correlation. Basic experimental design. Analysis of variance (fixed random and mixed models). Analysis of covariance. Computer software usage. Cross-listed with: STAT 221.

Credits: 3.00

### **BIOS 223 - Applied Multivariate Analysis**

Multivariate normal distribution. Inference for mean vectors and covariance matrices. Multivariate analysis of variance (MANOVA), discrimination and classification, principal components, factor analysis. Prerequisite: Any 200-level Statistics course; STAT 221 or STAT 225 recommended; matrix algebra recommended. Cross-listed with: STAT 223.

Credits: 3.00

### **BIOS 231 - Experimental Design**

Randomization, complete and incomplete blocks, cross-overs, Latin squares, covariance analysis, factorial experiments, confounding, fractional factorials, nesting, split plots, repeated measures, mixed models, response surface optimization. Prerequisites: 211; 221 recommended. Cross-listing: STAT 231.

Credits: 3.00

### **BIOS 241 - Statistical Inference**

Introduction to statistical theory; related probability fundamentals, derivation of statistical principles, and methodology for parameter estimation and hypothesis testing. Pre/co-requisites: BIOS 151, BIOS 153 or BIOS 25; BIOS 141 or equivalent; MATH 121. Cross-listed with: STAT 241.

Credits: 3.00

**BIOS 391 - Master's Thesis Research**

Credit as arranged.

Credits: 1.00 to 12.00



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## Courses in Botany (BOT)

### **BOT 004 - Intro to Botany**

Structure, function, and reproduction of plants. Fundamental aspects of plant science with implications of botanical knowledge needed for applied plant sciences. Credit not given for both Botany 4 and Biology 1.

Credits: 4.00

### **BOT 006 - The Green World**

Evaluation of the impact of plants on the aesthetic, cultural, social, medical, and religious lives of peoples of the world. Botany and Biological Science majors will not receive credit for Botany 6 as part of program distribution requirements.

Credits: 3.00

### **BOT 095 - Special Topics**

Credits: 4.00

### **BOT 096 - Special Topics**

Credits: 1.00

### **BOT 104 - Plant Physiology**

Study of the plant as a whole, growth and development, water and mineral relations, environmental factors, and regulatory processes. Prerequisites: One year of plant or biological science, beginning chemistry recommended, or instructor's permission.

Credits: 4.00

### **BOT 108 - Morph & Evol Vasc Pl**

Evolutionary relationships of vascular plants as inferred from plant structure, ecology, geography, and reproductive biology. Synthesis includes both fossil and extant groups. Prerequisite: 4 or Biology 1, 2. Alternate years.



Credits: 4.00

**BOT 109 - Systematics & Phylogeny**

Classification; evolution of flowering plants; characterization and recognition of major families; species and generic concepts; biosystematics; taxonomic keys; preparation of herbarium specimens. Prerequisite: 4 or Biology 1, 2.

Credits: 4.00

**BOT 132 - See BCOR 101**

Introduction to transmission and molecular genetics with reference to prokaryotic, animal, and plant systems. Prerequisites: Biology 1, 2; Chemistry 31, 32.

Credits: 3.00

**BOT 151 - Plant Anatomy**

Credits: 3.00

**BOT 160 - See BCOR 102**

Interactions among plants and their environment. Topics covered include individuals, populations, communities, and ecosystems. Field methods and experimental design covered; ecological applications. Prerequisite: Botany 4 or Biology 1, 2; Math 19 or 21 recommended. Four Hours. Molofsky.

Credits: 4.00

**BOT 193 - College Honors**

(For Arts and Sciences seniors.)

Credits: 3.00

**BOT 194 - College Honors**

(For Arts and Sciences seniors.)

Credits: 3.00

**BOT 195 - Special Topics**

Credits: 3.00

**BOT 197 - Undergrad Research**

Individual projects under direction of a faculty member. Project may involve original research, readings, or apprenticeships. Prerequisites: Junior or senior standing, departmental permission. One to six hours.

Credits: 4.00

**BOT 198 - Undergrad Research**

Individual projects under direction of a faculty member. Project may involve original research, readings, or apprenticeships. Prerequisites: Junior or senior standing, departmental permission. One to six hours.

Credits: 1.00 to 6.00

**BOT 205 - Mineral Nutrition of Plants**

Role of essential elements for plant growth including classical and modern approaches to the study of ion availability and transport. Prerequisite: BOT 104.

Credits: 3.00

**BOT 209 - Biology of Ferns**

Evolutionary biology; a survey of New England ferns and discussion of their phylogenetic relationships; current research emphasizing morphological, biogeographical, genetic, and phytochemical aspects of speciation. Prerequisite: 108; 101 or 132 recommended. Alternate years.

Credits: 3.00

**BOT 213 - Plant Communities**

Plant sociology; structure and organization of the plant community; sampling methods and analysis of data; climatic and edaphic factors; field work.

Prerequisite: 109 or departmental permission.

Credits: 3.00

**BOT 223 - Fundamentals of Field Science**

Pattern and process in natural systems. Weekly discussion of unifying questions in science. Field labs teach sampling and analysis of vegetation, soils, and animals.

Prerequisite: Graduate standing or several university courses in earth sciences, life sciences, and chemistry.

Credits: 3.00

**BOT 226 - Environmental Problem Solving**

Students negotiate a contract, work as a team, and map and inventory forested natural areas as they apply problem solving skills to Vermont environmental project. Prerequisites: Instructor permission. One to three hours.

Credits: 1.00

**BOT 232 - Botany Field Trip**

Trips to selected environments outside Vermont, led by faculty members representing different fields of botany. Overall, integrated approach to ecology, structure, and function.

Credits: 1.00

**BOT 234 - Ecology of Freshwater Algae**

Community, population and physiological ecology of algae. Topics include taxonomy; diversity; distribution and seasonal succession; productivity and grazing; growth kinetics; and competitive and synergistic reactions. Prerequisites: Botany 160 or Natural Resources 103 or Biology 102. Alternate years.

Credits: 3.00

**BOT 241 - Tropical Plant Systematics**

Principles and methods of angiosperm phylogeny. Recent systematic and

evolutionary research on flowering plants; survey of tropical flowering plant families. Student presentations on recent research. Prerequisite: 109. Alternate years.

Credits: 4.00

**BOT 252 - Molecular Genetics II**

How cells control the flow of genetic information from gene into active gene product. Distinctions between quiescent and active genes, mechanisms of genetic communication/regulation. Prerequisites: Biology 101 or Agricultural Biochemistry 201 or Biochemistry 301, or equivalent; others by instructor's permission.

Credits: 3.00

**BOT 254 - Genetics of Fungi**

Understanding the classical and molecular genetics of fungi with respect to their contributions in agriculture, basic genetics, biotechnology, industry, recombinant DNA, and gene expression. Prerequisites: Biology 101, or Agricultural Biochemistry 201 or Biochemistry 301 or equivalents; others by instructor's permission.

Credits: 3.00

**BOT 257 - Plant Cell Physiology**

Detailed study of photosynthesis, plant cell membrane function, and plant cell growth. Prerequisites: 104, Chemistry 141, 142 or Chemistry 42, Physics 11, 12 or 31, 42. Alternate years.

Credits: 4.00

**BOT 258 - Biology of the Fungi**

Taxonomy, genetics, physiology, ecology, and economic importance of the fungi. Representatives of each major group are explored with respect to the above. Includes microbiological technique and laboratory culture of the fungi. Prerequisites: 101 or 104 or 132 or permission.

Credits: 4.00

**BOT 260 - Plant Population Biology**

Study of how environmental and life-history characteristics of plants determine the dynamics and evolution of populations. Prerequisites: Biology 102 or Botany 160 or instructor permission. UG only.

Credits: 3.00

**BOT 261 - Plant Growth & Development**

Concepts in plant structure and development. Biophysics of plant structure and pattern-formation. Introduction to methods of plant microscopy and microtechnique. Prerequisites: 104, 108, Intro. Physics or permission.

Credits: 4.00

**BOT 281 - Botany Seminar**

Presentations of personal research by faculty, graduate students, and outside guest speakers. Attendance required of botany graduate students and seniors in botanical research programs. Without credit.

Credits: 0.00

**BOT 282 - Botany Seminar**

See Botany 281.

Credits: 0.00

**BOT 295 - Special Topics**

For advanced students within areas of expertise of faculty. Aspects of ecology, physiology, genetics, cytology, bryology, pteridology, paleobotany, photobiology, membrane physiology, and cell biology. Prerequisite: Departmental permission.

Credits: 6.00

**BOT 296 - Special Topics**

Special Topics. UG only.

Credits: 4.00

**BOT 311 - Field Naturalist Practicum**

Landscape analysis; planning and designing field projects; integrated problem solving. Prerequisites: Enrollment in the Field Naturalist program. Variable hours up to three.

Credits: 0.00 to 3.00

**BOT 381 - Problems in Modern Botany**

Subject matter varies. Topics will stress current graduate student and staff research interests in a journal review or presentation-discussion format.

Prerequisite: Permission.

Credits: 3.00

**BOT 391 - Master's Thesis Research**

Credit as arranged.

Credits: 1.00 to 10.00

**BOT 392 - Master Project Rsch**

Credit as arranged.

Credits: 0.00 to 3.00

**BOT 491 - Doctoral Dissertation Research**

Credit as arranged.

Credits: 1.00 to 10.00



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## Courses in Business Administration (BSAD)

### **BSAD 017 - Business Law**

Concepts of law as related to business, including law of contracts, sales, bailments, and negotiable instruments, business and laws of agency, partnerships, and corporations. Prerequisite: Sophomore standing.

Credits: 3.00

### **BSAD 018 - Business Law**

Concepts of law as related to business, including law of contracts, sales, bailments, and negotiable instruments, business and laws of agency, partnerships, and corporations. Prerequisite: Sophomore standing.

Credits: 3.00

### **BSAD 040 - Information Technology & Mgmt**

Introduction to use of technology and computers in decision-making functions of management. Includes coverage of information technology, computer software applications, and programming. Credit cannot be received for Computer Science 2 or Computer Science 3 after completion of BSAD 40.

Credits: 3.00

### **BSAD 060 - Financial Accounting**

Introduction to generally accepted accounting principles and techniques regarding corporations, partnerships, and proprietorships as they apply to income determination and financial position presentation. Prerequisite: Sophomore standing. Credit will be granted for only one of BSAD 60 or BSAD 65.

Credits: 4.00

### **BSAD 061 - Managerial Accounting**

Introduction to use of accounting for planning, cost behavior and control, and decision making. Prerequisite: BSAD 60 or 65.

Credits: 4.00

**BSAD 065 - Fundamentals of Accounting**

Overview of the financial accounting model and basic managerial accounting concepts, including accounting for service, merchandising and manufacturing companies, financial Statement components (assets, liabilities and equity), cost analysis, and budgeting. Prerequisite: Sophomore standing. Credit will be granted for only one of BSAD 60 or BSAD 65.

Credits: 4.00

**BSAD 095 - Special Topics**

Credits: 3.00

**BSAD 096 - Special Topics**

Credits: 4.00

**BSAD 120 - Prin Mgmt & Org Behavior**

Fundamentals of management, organization theory, behavior, and interpersonal communication in a transnational context. Prerequisite: Junior standing.

Credits: 3.00

**BSAD 121 - ST in Organizational Behavior**

Focuses on ways in which individuals and work groups within organizations can be better utilized as organizational resources. Prerequisite: BSAD 120.

Credits: 3.00

**BSAD 123 - Collective Barg & Conflict Res**

Focuses on union-employer relations and on developing the student's negotiation skills. Topics include the union contract, the causes of strikes, and the techniques for resolving conflict. A bargaining simulation is incorporated. Prerequisite: BSAD 120.

Credits: 3.00

**BSAD 127 - International Management**

Reviews special problems in the management of human resources in a global economy. Focuses on cultural differences, a comparison of labor-management systems in a number of countries, the role of multinational corporations, and the impact of foreign enterprises on employment practices in host countries.

Prerequisite: BSAD 120; Senior standing.

Credits: 3.00

**BSAD 132 - Legal & Political Envir of Bus**

Interaction of business and society. Emphasis on business roles in the complex and dynamic, legal, political, and social environment. Prerequisites: Economics 11, 12; junior standing.

Credits: 3.00

### **BSAD 137 - Entrepreneurship**

Understanding of the business challenges that confront entrepreneurs and their approaches to opportunities. Emphasizes real-world information gathering and integrated approaches needed for entrepreneurial success. Prerequisite: Junior standing and strong personal motivation.

Credits: 3.00

### **BSAD 138 - New Venture Creation I**

Students develop business plans for their own new business ideas. Evaluate market and financial feasibility and develop strategy and business objectives for the new venture. Prerequisite: BSAD 137 or permission of the instructor plus strong personal motivation.

Credits: 3.00

### **BSAD 139 - New Venture Creation II**

Continuation of BSAD 138. Students develop detailed and integrated operational business plans to support the business concept, strategy and objectives developed in BSAD 138. Prerequisite: BSAD 138.

Credits: 3.00

### **BSAD 141 - Mgmt Information Systems**

Integrates computer hardware and software concepts with a classical methodology for developing business information systems. Presents the relevant factors in the development of information systems. Discusses the problems of analyzing, designing, and implementing such systems. Prerequisites: BSAD 61, BSAD 40 or Computer Science major, junior standing.

Credits: 3.00

### **BSAD 142 - Structured Business Prgmming**

Fundamental principles of business computer programming. Topics include: the constructs of structured programming, modular development, sequential and nonsequential access techniques. Exercises include data editing, reporting, file updating. An on-line program development mode is used. Credit cannot be received for both CS 014 and BSAD 142. Prerequisite: BSAD 141.

Credits: 3.00

### **BSAD 143 - Struc Anyl & Dsgn Business Sys**

In-depth study of business information system development cycle emphasizing analysis and design phases. Structured analysis and design techniques used to develop models of business information systems. Case studies such as payroll, inventory, accounts receivables, order entry, billing. Prerequisite: BSAD 141.

Credits: 3.00

### **BSAD 144 - Data Base Development & Admin**

Data base system development cycle from analysis to design, implementation,

and administration. Central focus on complex data structure modeling, data base implementation and administration. A project involving analysis, design, and implementation required. Prerequisite: BSAD 141, BSAD 143, or Instructor permission.

Credits: 3.00

#### **BSAD 145 - Managing Info System Resource**

Theory and practice of managing resources of an organization's information system. Responsibilities and interactions of upper level, function area, and information system managers emphasized. Topics include project selection and control, staffing, organizing, planning, and managing the information system function. Prerequisites: BSAD 120, BSAD 143, concurrent enrollment in BSAD 144, or instructor's permission. Variable 3-4 hours.

Credits: 3.00

#### **BSAD 146 - Loc Area Net/Wrk Grp & Sm Bus**

Planning and installation of local area networks (LANs). Covers fundamental principles of telecommunications and networking with application to both peer to peer and client server networks. (Offered summer session only). Prerequisites: BSAD 141 and instructor permission. Corequisite: BSAD 147.

Credits: 3.00

#### **BSAD 147 - Local Area Networking Lab**

Laboratory to accompany BSAD 146. Install, configure, and test two different network systems in a simulated small business setting; include basic network services. (Offered summer session only). Prerequisite: BSAD 141 or instructor permission. Corequisite: BSAD 146.

Credits: 3.00

#### **BSAD 150 - Marketing Management**

The place of marketing in our economy. Analysis of the market structure by function, institutions, and commodities. Consumer and organizational activities reviewed. Credit can not be received for CDAE 168 after completion of BSAD 150. Prerequisites: Statistics 141 or 111, Economics 11, 12; junior standing.

Credits: 3.00

#### **BSAD 152 - Business to Business Marketing**

Exploration and analysis of the marketing of goods and services to organizations. Topics include organizational buying, market segmentation, positioning, pricing, communication, physical distribution and customer service, and sales management. Prerequisite: BSAD 150.

Credits: 3.00

#### **BSAD 153 - Consumer Behavior**

Exploration and analysis of research evidence from marketing and behavioral science relevant to a theory of consumer behavior. Emphasis also given to



research methodologies. Credit can not be received for both CDAE 127 and BSAD 153. Prerequisite: BSAD 150.

Credits: 3.00

**BSAD 155 - Marketing Communications**

Emphasizes the coordination of advertising and sales promotion into cohesive, single-minded promotional programs. Stresses the need to integrate promotional activity into the overall marketing strategy. Credit can not be received for both CDAE 128 and BSAD 155. Prerequisite: BSAD 150.

Credits: 3.00

**BSAD 158 - Current Marketing Developments**

Analysis of both present and future changes affecting marketing theory and practice. Topics include social changes, functional and institutional marketing system changes. Individual research projects required. Prerequisite: BSAD 150.

Credits: 3.00

**BSAD 159 - Mrktg Planning & Programming**

The use of advanced cases to aid in the formulation of overall policies and planning strategies for marketing programs. Topics include product planning and channel selection. Prerequisite: BSAD 150 and one other marketing course.

Credits: 3.00

**BSAD 161 - Intermediate Accounting**

Principles, concepts, techniques, and issues involved in accounting for the assets, liabilities, and owners equity and their related effect on income determination of an enterprise. Prerequisites: BSAD 60, junior standing.

Credits: 3.00

**BSAD 162 - Intermediate Accounting**

Principles, concepts, techniques, and issues involved in accounting for the assets, liabilities, and owners equity and their related effect on income determination of an enterprise. Prerequisites: BSAD 161, junior standing.

Credits: 3.00

**BSAD 164 - Intro to Federal Taxation**

Examination of the Internal Revenue Code primarily regarding individuals and property transactions. Tax research methodology, and the taxation of corporate and partnership income, are introduced. Prerequisites: BSAD 060 or BSAD 065; Junior standing.

Credits: 3.00

**BSAD 168 - Cost Accounting**

Accounting for inventory valuation and income determination, nonroutine decisions, policy making and long-range planning. Prerequisite: BSAD 061; Junior standing.

Credits: 3.00

**BSAD 170 - Business Forecasting Methods**

Looks inside the crystal ball at major forecasting methods (Smoothing, Regression, Econometric, Box-Jenkins, Combined), and analyzes elements of good forecasting practice in an organization. Extensive use of PC forecasting packages. Prerequisites: STAT 141, EC 011, EC 012; Junior standing.

Credits: 3.00

**BSAD 173 - Production&Operations Analysis**

Study of methods used in planning, analysis, and control of production and service processes. Topics include forecasting, scheduling, production and inventory control, sequencing, line balancing, learning curves, and networks. Prerequisites: Math 20 or 21, Statistics 141, junior standing.

Credits: 3.00

**BSAD 174 - Manufacturing Planning&Control**

Study of systems to plan and control flows of materials through manufacturing. Topics include production, materials, and capacity planning; master scheduling; shop-floor control, and just-in-time production. Prerequisite: BSAD 173 or Senior standing in Engineering or Mathematics.

Credits: 3.00

**BSAD 175 - Management of Technology**

Role of technology in industry, the nature of technological change, strategies, management, research and development, forecasting, product service/project selection, development, management, transition to market, and evaluation. Prerequisite: Senior standing in Engineering or Business Administration. Cross-Listed with: EMGT 175.

Credits: 3.00

**BSAD 177 - Decision Analysis**

Thinking through difficult decisions. Course utilizes case studies and professional software to analyze decision making, design decision models and perform risk analyses. Prerequisite: STAT 141; Junior standing.

Credits: 3.00

**BSAD 178 - Quality Control**

Analysis and design of systems for obtaining quality in operations. Statistical process control (SPC) emphasized, along with current management philosophies and concepts. Prerequisite: MATH 020 or MATH 021, STAT 141 or equivalent; Junior standing.

Credits: 3.00

**BSAD 180 - Managerial Finance**

The financial function in the corporation. Techniques for evaluating current use of

resources and proposed resource acquisitions or dispositions. Credit can not be received for CDAE 167 after completion of BSAD 180. Prerequisites: BSAD 61 or 65, Economics 12, Statistics 141 or 111, junior standing.

Credits: 3.00

**BSAD 181 - Intermediate Financial Mgmt**

Examines key areas of financial decision making. With cases and problems, issues such as capital budgeting, leasing, mergers, and acquisitions examined.

Prerequisite: BSAD 180.

Credits: 3.00

**BSAD 183 - International Finance Mgmt**

Theories and practices of international financial management examined. Topics investigated include: systems of international exchange, spot and forward markets, and expropriation and exchange risk. Prerequisite: BSAD 180.

Credits: 3.00

**BSAD 184 - Financial Institutions&Markets**

Study of level and structure of interest rates and characteristics of financial institutions and markets. Topics include market vs. natural rate of interest, interest rate structure, behavior of interest rates. Prerequisite: BSAD 180.

Credits: 3.00

**BSAD 191 - Business Policy**

Processes of total enterprise strategy formation, implementation, and performance measurement. Uses and limits of techniques for strategy analysis. Strategic change and the job of the general manager. Prerequisite: Senior standing.

Credits: 3.00

**BSAD 192 - Business Process Improvement**

Familiarizes students with the basic conceptual issues of continuously improving business processes to compete more effectively on quality, time, and cost.

Prerequisite: Junior standing.

Credits: 3.00

**BSAD 194 - Internship**

Independent research under faculty supervision, in connection with a preprofessional work experience. Written requirements include a substantive analysis of an aspect of the internship, linking it with the academic curriculum.

Prerequisite: Completion of the Basic Business Core courses; at least one Business Field Course; cumulative GPA of at least a 3.0; permission of the School of Business Administration.

Credits: 3.00

**BSAD 195 - Special Topics**

Specialized or experimental courses offered as resources permit.

Credits: 6.00

**BSAD 196 - Special Topics**

Specialized or experimental courses offered as resources permit.

Credits: 3.00

**BSAD 197 - Independent Study**

Independent investigation designed by the student as a means of applying prior course work to a specialized problem. Well suited for senior projects. Prerequisite: Permission of BSAD Undergraduate Studies Committee.

Credits: 3.00

**BSAD 198 - Independent Study**

Independent investigation designed by the student as a means of applying prior course work to a specialized problem. Well suited for senior projects. Prerequisite: Permission of BSAD Undergraduate Studies Committee.

Credits: 3.00

**BSAD 222 - Human Resource Management**

Critical examination of contemporary problems in human resource management; including job analysis, recruitment, training and employee development, health and safety, compensation, performance appraisal, and related topics. Prerequisite: BSAD 120; Senior standing.

Credits: 3.00

**BSAD 226 - Current Iss in Mgmt & Org Thry**

Subjects may include training and development, selection and recruitment, and affirmative action. Prerequisite: BSAD 120.

Credits: 3.00

**BSAD 234 - Canadian-US Business Relations**

A study of the Canadian-U.S. bilateral relationship as it affects international business, emphasizing trade, investment, energy, and industrial development policies. Prerequisite: EC 011, EC 012.

Credits: 3.00

**BSAD 251 - Marketing Research**

The role of research in a marketing information framework. Emphasis on survey research, data collection, and analysis. Experimental designs also examined. Prerequisite: BSAD 150.

Credits: 3.00

**BSAD 252 - Marketing Research Practicum**

Market research field project. Students design survey instruments, collect and analyze data, and present results to clients in a business environment. Prerequisite: BSAD 251.

Credits: 3.00

**BSAD 258 - International Market Analysis**

Examines the cultural, economic, historic, and political factors that affect the analysis of foreign markets. Specific attention is given to the processes by which market entry decisions are developed and implemented. Prerequisites: Senior or graduate standing; BSAD 150 or permission of instructor.

Credits: 3.00

**BSAD 260 - Financial Statement Analysis**

A study of the concepts and techniques underlying corporate financial statement analysis, emphasizing business equity valuation. Prerequisites: BSAD 180 or 308.

Credits: 3.00

**BSAD 263 - Accounting & the Environment**

An examination of the critical role of accounting in implementing and assessing the firm's environmental strategy. A variety of accounting issues are addressed through readings and case studies. Prerequisites: Junior standing, BSAD 61 or 65 or concurrent enrollment in BSAD 308.

Credits: 3.00

**BSAD 266 - Advanced Accounting**

Accounting for partnerships, special sales contracts, parent-subsidary relationships, fiduciary relationships, and governmental units. Prerequisite: BSAD 162.

Credits: 3.00

**BSAD 267 - Auditing**

Independent and internal auditing. Topics include standards, ethics and legal responsibilities of the profession, financial statements, audit concepts, and techniques, and the audit option. Prerequisite: BSAD 162.

Credits: 3.00

**BSAD 270 - Quant Anyl for Managerial Dec**

Application of management science methods to managerial decision making, emphasizing modeling and use of solution results. Topics include mathematical programming, waiting-line analysis, and computer simulation. Prerequisite: STAT141, MATH 020 or MATH 021.

Credits: 3.00

**BSAD 272 - Discrete Simulation**

Discrete simulation using monte-carlo techniques and the GPSS simulation processor; mathematical modeling of systems; control systems; validation and sensitivity analysis. Prerequisites: Statistics 141 or 151, senior standing. UG only.

Credits: 3.00

**BSAD 282 - Security Val & Portfolio Mgmt**

Examination of theories and evidence on the investment decision process including operations of equity securities markets, market efficiency, financial asset prices, and portfolio management. Prerequisites or Corequisites: BSAD 180.

Credits: 3.00

**BSAD 285 - Options and Futures**

Financial derivatives - options, futures and swaps. Topics include: structures of the markets for exchange traded and over-the counter derivatives; identification and exploitation of arbitrage opportunities; use and misuse of derivatives to hedge risk in both financial and product markets. Prerequisites or Corequisites: BSAD 180.

Credits: 3.00

**BSAD 293 - Integrated Product Development**

(Cross-listed with Mechanical Engineering 265, Statistics 265.) Project-based course focusing on the entire product life cycle. Team dynamics, process and product design, quality, materials, management, and environmentally-conscious manufacturing. Prerequisite: Senior standing.

Credits: 3.00

**BSAD 295 - Special Topics**

Advanced courses on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles and prerequisites. Prerequisite: Senior standing.

Credits: 6.00

**BSAD 302 - Business Economics**

An introduction to the principles of economics as relevant to business decision-making. The use of various analytical tools are stressed through their application in solving a variety of managerial problems. Prerequisite: MBA standing or permission of MBA Program Director.

Credits: 3.00

**BSAD 305 - Fundamentals of Marketing Mgmt**

Accelerated course on marketing principles and theory. Analytical approach to study of product pricing strategies; distribution, communication, and promotion; consumer behavior and development of corporate marketing strategy.

Prerequisite: MBA standing.

Credits: 3.00

**BSAD 306 - Fundamentals of Accounting**

Introduction to basic concepts, assumptions, conventions providing foundation for developing financial statements. Analysis, interpretation of the income statement, balance sheet, statement of changes in financial position. Prerequisite: MBA standing.

Credits: 3.00

**BSAD 307 - Organization & Mgmt Studies**

A survey course of the principles of management and organization behavior. The fundamentals of planning, organizing, leading, staffing, and controlling are covered. Particular attention is given to organization theory and behavior, including topics such as motivation, group behavior and decision making. All areas are covered in an international context. Prerequisite: MBA standing.

Credits: 3.00

**BSAD 308 - Corporate Finance**

An introduction to financial decision making in the firm. Decisions related to acquisition and allocation of funds are examined and practiced through cases and problems. Prerequisite: MBA standing; BSAD 306.

Credits: 3.00

**BSAD 309 - Fund Legal Environ of Business**

General overview of areas of interaction between businesses and governments. Examination of governmental policy toward business and review of laws governing business-government interactions. Prerequisite: MBA standing.

Credits: 3.00

**BSAD 331 - Health Care Management**

Addresses changing challenges confronted by managers in health services delivery organizations. Examines applications and limitations of management concepts and processes in the health care context. Prerequisite: MBA standing. Cross-listed with: PA 312.

Credits: 3.00

**BSAD 340 - Production & Operations Mgmt**

Study of the operations function in manufacturing and service organizations. Design, planning, and control are examined, with emphasis on managerial analysis and decision making. Prerequisite: One course in STAT.

Credits: 3.00

**BSAD 341 - Forecasting**

Modern forecasting methods and practices including smoothing, regression, econometric and Box-Jenkins models; combining forecasts and forecasting simulations. Professional software used for developing forecasts. Prerequisite: MBA standing; one course in Statistics or research methods.

Credits: 3.00

**BSAD 345 - Management Information Systems**

An introduction to the design and implementation of management information systems. A theoretical framework is developed and applied by students to an information system. Prerequisite: MBA standing.

Credits: 3.00

**BSAD 346 - Decision Making Models**

Application of decision-making models to administrative problems. Structuring decisions through decision trees, making choices, assessing risk, resolving conflicting objectives and overcoming organizational impediments. Prerequisite: One course in Statistics. Cross-listed with: PA 308.

Credits: 3.00

**BSAD 352 - Business to Business Marketing**

Exploration and analysis of the marketing of goods and services to organizations. Topics include organizational buying, market segmentation, positioning, pricing, communication, physical distribution and customer services, and sales management. Prerequisite: MBA standing; BSAD 305.

Credits: 3.00

**BSAD 365 - Managerial Accounting**

Study of development, utilization of accounting information for product costing and pricing purposes, for routine planning and control of organizational activities, for decision-making purposes. Prerequisites: MBA standing, BSAD 306.

Credits: 3.00

**BSAD 376 - Mgmt of Change in Organization**

Applied behavioral science perspective adopted to identify conceptual issues, develop diagnostic skills, examine alternative intervention strategies relevant to accomplishment of planned changes in organizational systems. Prerequisite: MBA standing; BSAD 307.

Credits: 3.00

**BSAD 380 - Managerial Finance**

Focus on key financial decisions that affect the value of the firms. Topics: capital structure, leasing, mergers and acquisitions, capital market theories and evidence. Prerequisites: MBA standing, BSAD 308.

Credits: 3.00

**BSAD 394 - Independent Readings&Research**

Allows a student to pursue independent research under the direction of a faculty member. Normally, the course will include a research paper. Prerequisite: MBA standing; permission of the Graduate Studies Committee.

Credits: 3.00

**BSAD 395 - Special Topics**

Topics and material that may develop later into a regular course offering; in addition, it may include topics and material offered only once. Prerequisite: MBA standing; permission of the Graduate Studies Committee.

Credits: 3.00

**BSAD 396 - Business Policy**



A case course focusing on the resolution of complex cases involving simultaneous solutions of problems in two or more functional areas. Prerequisites: MBA standing; last semester of study.

Credits: 3.00



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### Courses in Cell Biology (CLBI)

**CLBI 295 - Special Topics**

Credit as arranged.

Credits: 3.00

**CLBI 301 - Cell Biology**

Advanced survey of cell organelles, their composition, origin, and the relationship between their structure and function. Emphasis on recent literature and current controversies. Prerequisite: CHEM 142; Graduate standing in Biology or Instructor permission. Cross-listed with: BIOL 301.

Credits: 3.00

**CLBI 302 - Spec Cells & Cell Processes**

Current issues and research in the field of plant, invertebrate, mammalian cell, and molecular biology. Prerequisite: CLBI 301. Cross-listed with: BIOL 302.

Credits: 3.00

**CLBI 381 - Seminar**

One hour.

Credits: 1.00

**CLBI 391 - Master's Thesis Research**

Credit as arranged.

Credits: 3.00

**CLBI 395 - Special Topics**

Credit as arranged.

Credits: 6.00

**CLBI 491 - Doctoral Dissertation Research**

Credit as arranged.  
Credits: 1.00 to 12.00

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## Courses in Chemistry (CHEM)

### **CHEM 023 - Outline of General Chemistry**

One-semester survey of principles and concepts of general chemistry, designed primarily to meet needs of students in agricultural and health sciences. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 25, 31 or 35.

Credits: 4.00

### **CHEM 025 - Outline of General Chemistry**

One-semester survey of principles and concepts of general chemistry, designed primarily to meet the needs of students in agricultural and health sciences. NO LABORATORY. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 23, 31 or 35.

Credits: 3.00

### **CHEM 026 - Outline of Organic & Biochem**

Broad overview of most important facts and principles of organic and biochemistry and interrelationships between these branches of chemistry. Prerequisite: 31 or 23. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 28, 42 or 44.

Credits: 4.00

### **CHEM 028 - Outline of Organic & Biochem**

Broad overview of most important facts and principles of organic and biochemistry and of interrelationships between these branches of chemistry. NO LABORATORY. Prerequisite: 31 or 23 or 25. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 26, 42 or 44.

Credits: 3.00

### **CHEM 031 - Introductory Chemistry**

Basic course in principles and concepts of general chemistry. These courses, or CHEM 35, 36 serve as suitable prerequisites for 100-level courses in Chemistry. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 23, 25 or 35.

Credits: 4.00

### **CHEM 032 - Introductory Chemistry**

Basic course in principles and concepts of general chemistry. These courses, or CHEM 35, 36 serve as suitable prerequisites for 100-level courses in Chemistry. Prerequisite: 31 or 35. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 36.

Credits: 4.00

### **CHEM 035 - General Chemistry**

General chemistry for students with a strong background in physical sciences. Recommended for students concentrating in physical sciences. Prerequisites: One year of high school chemistry, concurrent enrollment or background in calculus. High school physics recommended. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 23, 25 or 31.

Credits: 4.00

### **CHEM 036 - General Chemistry**

General chemistry for students with a strong background in physical sciences. Recommended for students concentrating in physical sciences. Prerequisites: One year of high school chemistry, concurrent enrollment or background in calculus. High school physics recommended; 31 or 35. May not be taken concurrently with, or following receipt of, credit for CHEM 32.

Credits: 4.00

### **CHEM 039 - Introduction to Research**

Overview of methods, areas, and instrumentation of modern chemical research, including hands-on laboratory experiences and written and oral presentations of a research project. Prerequisite: score of 4 or 5 on the AP Chemistry examination or Department permission.

Credits: 2.00

### **CHEM 040 - Introduction to Research**

Overview of methods, areas, and instrumentation of modern chemical research, including hands-on laboratory experiences and written and oral presentations of a research project. Prerequisite: score of 4 or 5 on the AP Chemistry examination or permission of department.

Credits: 2.00

### **CHEM 042 - Intro Organic Chemistry**

Concepts for understanding chemistry of structurally simple organic compounds of everyday importance. These principles applied to more complex molecules such

as polymers and biologically important compounds such as proteins, lipids, and carbohydrates. (Does not satisfy medical school entrance requirements for undergraduate preparation in organic chemistry.) Prerequisite: 31 or 23. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 26, 28, 44, 141 or 143.

Credits: 4.00

#### **CHEM 044 - Intro Organic Chemistry**

Concepts for understanding chemistry of structurally simple organic compounds of everyday importance. These principles applied to more complex molecules such as polymers and biologically important compounds such as proteins, lipids, and carbohydrates. (Does not satisfy medical school entrance requirements for undergraduate preparation in organic chemistry.) NO LABORATORY.

Prerequisite: 31 or 23 or 25. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 26, 28, 42, 141 or 143.

Credits: 3.00

#### **CHEM 095 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

#### **CHEM 096 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

#### **CHEM 121 - Quantitative Analysis**

Theory and practice of volumetric and gravimetric analysis. Theoretical discussion of indicators, buffers, pH, etc. Introduction to data analysis, spectrophotometry, and chromatography. Prerequisite: CHEM 032 or CHEM 036.

Credits: 4.00

#### **CHEM 131 - Inorganic Chemistry**

Symmetry, group theory, molecular structure; valence shell; MO, crystal field, and ligand field bonding models; solid state, electron deficient, acid-base, and simple organo-metallic systems. Prerequisite: Credit for or concurrent enrollment in 142 or 144.

Credits: 3.00

#### **CHEM 141 - Organic Chemistry**

Survey of properties and reactions of organic compounds with consideration of bonding, stereochemistry, mechanisms, principles of reactivity, spectroscopy, syntheses, and utilization. Designed for premedical, pre dental, and preveterinary students and for those majoring in biological and physical sciences. Prerequisites: 31, 32 or 35, 36. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 42, 44 or 143.

Credits: 4.00

**CHEM 142 - Organic Chemistry**

Survey of properties and reactions of organic compounds with consideration of bonding, stereochemistry, mechanisms, principles of reactivity, spectroscopy, syntheses, and utilization. Designed for premedical, pre dental, and preveterinary students and for those majoring in biological and physical sciences. Prerequisites: 141. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 144.

Credits: 4.00

**CHEM 143 - Organic Chemistry for Majors**

Survey of principles and reactions of organic chemistry for chemistry majors. Prerequisites: 31,32 or 35,36. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 42 , 44 or 141.

Credits: 4.00

**CHEM 144 - Organic Chemistry for Majors**

Survey of principles and reactions of organic chemistry for chemistry majors. Prerequisites: 143. May not be taken for credit concurrently with, or following receipt of, for credit for CHEM 142.

Credits: 4.00

**CHEM 146 - Adv Organic Laboratory**

Laboratory practice in separation, purification, synthesis, identification, spectroscopy, and physical organic techniques as applied to organic compounds. For Chemistry majors. Prerequisite: 144.

Credits: 2.00

**CHEM 160 - Phys Chem for Bio Sci Students**

Aspects of physical chemistry most pertinent to work in biological sciences: acid-base equilibrium, theory of solutions, thermodynamics and kinetics. Prerequisite: CHEM 032 or CHEM 036; PHYS 011 or PHYS 031. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 162.

Credits: 3.00

**CHEM 161 - Physical Chemistry**

Elementary quantum chemistry, bonding, spectroscopy, and statistical mechanics. Prerequisites: 32 or 36; Physics 42, Math. 121 or Chem. 167.

Credits: 3.00

**CHEM 162 - Physical Chemistry**

Properties of gases and solutions; thermodynamics and kinetics. Prerequisites: 32 or 36; PHYS 42, MATH 121 or CHEM 167. Note: CHEM 162 may be taken before 161. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 160.

Credits: 3.00

**CHEM 167 - Physical Chemistry Preparation**

Review of relevant mathematical and physical concepts as applied to physical chemistry. Prerequisite: CHEM 032 or CHEM 036; MATH 022. Cross-listed with: MATH 167.

Credits: 1.00

**CHEM 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 6.00

**CHEM 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 6.00

**CHEM 198 - Readings & Research**

Credits: 2.00

**CHEM 201 - Advanced Chemistry Lab**

Laboratory and discussion only. Laboratory problems requiring modern analytical, physical, and inorganic synthetic techniques. Prerequisites: 142 or 144; credit for or concurrent enrollment in 161 or 162, and 221.

Credits: 3.00

**CHEM 202 - Advanced Chemistry Lab**

Laboratory only. Laboratory problems requiring modern analytical, physical, and inorganic synthetic techniques. Prerequisites: 201.

Credits: 2.00

**CHEM 205 - Biochemistry I**

Introduction to chemistry and structure of biological macromolecules; examination of mechanisms of chemical processes in biological systems including enzyme catalysis, biosynthesis, regulation, and information transfer. with: BIOC 205 and MMG 205. Prerequisite: CHEM 142 or CHEM 144. Cross-listed

Credits: 3.00

**CHEM 206 - Biochemistry II**

Continuation of Biochemistry I. Biochemistry of nucleic acids; nucleic acid based processes, such as replication and transcription; cellular information transfer, genomics, and proteomics. Prerequisite: CHEM 205. Cross-listed with: BIOC 206 and MMG 206.

Credits: 3.00

**CHEM 207 - Biochemistry Lab**

Introduction to biochemical tools, including spectrometry, chromatography, and electrophoresis; natural and recombinant enzyme isolation; assays of DNA-modifying enzymes; computer-based structure/function exercises. Co-requisite:



CHEM 205 or CHEM 206. Cross-listed with: BIOC 207 and MMG 207.

Credits: 2.00

**CHEM 214 - Polymer Chemistry**

Polymer size and weight distributions. Kinetic models for step polymerization, addition polymerization, copolymerization. Physical properties, characterization of polymers in the solid state and in solution. Prerequisites: 144, 162. Alternate years.

Credits: 3.00

**CHEM 221 - Instrumental Analysis**

Systematic survey of modern methods of chemical analysis. Fundamental principles and applications of spectroscopy, electrochemistry, and separation techniques. Prerequisite: CHEM 121. Credit for or concurrent enrollment in CHEM 161 or CHEM 162 strongly recommended.

Credits: 3.00

**CHEM 223 - Mass Spectrometry**

This course covers basic aspects of modern mass spectrometry instrumentation and techniques as well as specific applications relevant to the students in the course. Prerequisites: 142 or 144 and 221 or instructor's permission.

Credits: 3.00

**CHEM 224 - Chemical Separations**

Theory and practice of chromatographic separations. Emphasis on gas-liquid, liquid-liquid, and liquid-solid chromatography. Prerequisite: CHEM 221. Alternate years.

Credits: 3.00

**CHEM 225 - Electroanalytical Chemistry**

Principles of modern electrochemical analysis focusing mainly on finite current methods - voltammetry, polarography, chronoamperometry, cyclic voltammetry, etc. Introductory to modern operational amplifier instrumentation. Double layer theory and electron transfer kinetics. Prerequisite: 161. Alternate years.

Credits: 3.00

**CHEM 226 - Analytical Spectroscopy**

Principles of optical spectroscopic methods of analysis. Emphasis on theory and practice of atomic spectroscopy and new molecular spectroscopic methods. Prerequisite: CHEM 221. Alternate years.

Credits: 3.00

**CHEM 227 - Spec Topics in Analytical Chem**

Selected topics of current interest in analytical chemistry. New techniques and methodologies, especially in chemical instrumentation. Credit as arranged.

Credits: 1.00

**CHEM 228 - Spec Topics in Analytical Chem**

Selected topics of current interest in analytical chemistry. New techniques and methodologies, especially in chemical instrumentation. Credit as arranged.

Credits: 3.00

**CHEM 231 - Adv Inorganic Chemistry**

Advanced group theory; electronic transitions in metal complexes and spectroscopic analysis; inorganic substitution and electron transfer mechanisms; homogeneous and heterogeneous catalytic processes; bioinorganic chemistry.

Prerequisite: 131.

Credits: 3.00

**CHEM 234 - Organometallic Chemistry**

Systematic survey of synthesis, properties, structures, bonding, and reactions of both main group and transition series organometallic compounds. Variation of structure and metal-carbon bond stability throughout periodic system. Prerequisite: 231. Alternate years.

Credits: 3.00

**CHEM 236 - Physical Inorganic Chemistry**

Fundamental physical basis for spectroscopic techniques and other observable phenomena important to field of inorganic chemistry. Topics include ligand field theory, magnetism, magnetic resonance, Mossbauer spectroscopy, and optical activity. Prerequisites: 161, 231. Alternate years.

Credits: 3.00

**CHEM 237 - SpecTopic: Inorganic Chemistry**

Areas of current interest involving inorganic systems such as bioinorganic, solid state and polymers with unusual properties. Credit as arranged.

Credits: 3.00

**CHEM 238 - SpecTopic: Inorganic Chemistry**

Areas of current interest involving inorganic systems such as bioinorganic, solid state and polymers with unusual properties. Credit as arranged.

Credits: 3.00

**CHEM 241 - Advanced Organic Chemistry**

Stereochemistry, reactivity criteria, reaction mechanisms, and synthetic methods stressed. Reactive intermediates such as carbanions, carbocations, carbenes, and free radicals used to systematize mechanistic discussions. Prerequisites: 142, 162.

Credits: 3.00

**CHEM 242 - Advanced Organic Chemistry**

Detailed mechanistic descriptions of processes which may include enolate

reactions and stereochemical considerations, addition processes such as halogenation, cycloadditions, hydroboration, hydride and metal-ammonia reductions, annelations such as biomimetic cyclizations, oxidation processes, rearrangements, eliminations, and examinations of approaches to multistep syntheses. Prerequisite: CHEM 241.

Credits: 3.00

### **CHEM 251 - Physical Organic Chemistry**

Structure-reactivity relationships, molecular properties and their interpretation. Methods and results of investigations of mechanisms of common organic reactions. Prerequisites: 142, 162. Alternate years.

Credits: 3.00

### **CHEM 257 - Special Topics in Organic Chem**

Advanced level discussion of specific topics in organic chemistry of current interest such as photochemistry, carbenes, bioorganic chemistry, magnetic resonance, etc. Credit as arranged.

Credits: 3.00

### **CHEM 258 - Special Topics in Organic Chem**

Advanced level discussion of specific topics in organic chemistry of current interest such as photochemistry, carbenes, bioorganic chemistry, magnetic resonance, etc. Credit as arranged.

Credits: 3.00

### **CHEM 262 - Chemical Thermodynamics**

Systematic study of application of thermodynamics to chemical problems. Concepts of statistical thermodynamics introduced. Prerequisites: 161, 162. Alternate years.

Credits: 3.00

### **CHEM 263 - Intro to Quantum Mechanics**

General considerations of quantum mechanics. Development of techniques pertinent to application of quantum mechanics to chemical problems. Prerequisite: CHEM 161, CHEM 162. Alternate years.

Credits: 3.00

### **CHEM 264 - Fundamentals of Spectroscopy**

In-depth discussion of the theory of molecular states and transitions between them, with applications to electronic spectroscopy. Explicit treatment of vibrations in molecules. Prerequisites: 161, Math.121. Alternate years.

Credits: 3.00

### **CHEM 266 - Molecular Orbital Theory**

Introduction to Huckel molecular orbital method. Energy levels and orbitals, molecular properties and their interpretation. Effects of substituents on electronic

structure. Extensions of Huckel method. Prerequisites: 142, 161. Alternate years.  
UG only.

Credits: 3.00

**CHEM 267 - Special Topics in Phys Chem**

Advanced discussion of physical chemistry and chemical physics, group theory, solid state, molecular orbital theory, irreversible thermodynamics, kinetics and mechanisms, solution theory, calculations, spectroscopy. Credit as arranged.

Credits: 3.00

**CHEM 268 - Special Topics in Phys Chem**

Advanced discussion of physical chemistry and chemical physics, group theory, solid state, molecular orbital theory, irreversible thermodynamics, kinetics and mechanisms, solution theory, calculations, spectroscopy. Credit as arranged.

Credits: 3.00

**CHEM 282 - Senior Seminar**

Oral and written presentation of a subject of current chemical interest.

Prerequisite: Audit of CHEM 381.

Credits: 1.00

**CHEM 285 - Special Topics**

Credits: 2.00

**CHEM 286 - Special Topics**

Credits: 2.00

**CHEM 291 - Undergrad Research**

Special study in inorganic, analytical, physical, or organic chemistry with an assigned staff member. Findings submitted in written form. Prerequisite: Departmental permission. Credit as arranged with maximum of four hours per semester and 12 hours for the undergraduate program.

Credits: 3.00

**CHEM 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. UG only.

Credits: 3.00

**CHEM 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. UG only.

Credits: 3.00

**CHEM 342 - Natural Products: Alkaloids**

The major classes of alkaloids surveyed from a biogenetic point of view. Classical and modern degradation methods, total syntheses and biosynthetic incorporation of labeled compounds. Prerequisite: Credit or concurrent enrollment in CHEM 242.

Alternate years.

Credits: 3.00

**CHEM 344 - Natural Products: Terpenes**

The chemistry of mono, sesqui, di and triterpenes, including degradations, structure proofs, total syntheses, rearrangement reactions, and biogenesis.

Prerequisite: Credit or concurrent enrollment in CHEM 242. Alternate years.

Credits: 3.00

**CHEM 381 - Grad Seminar**

Current problems and literature.

Credits: 1.00

**CHEM 382 - Grad Seminar**

Current problems and literature.

Credits: 1.00

**CHEM 388 - Rsch Prob Conception&Solution**

Independent origination of research problems and the methods of their solution.

Required of all doctoral candidates. Prerequisite: Permission of the Department.

This course shall be completed at least six months in advance of the Ph.D.

dissertation defense, and in no case later than the end of the seventh semester of Graduate studies at UVM.

Credits: 1.00

**CHEM 391 - Master's Thesis Research**

Credits: 1.00 to 18.00

**CHEM 395 - Independent Lit Rsch Project**

Reading and literature research culminating in the preparation of a comprehensive and critical review of a topic of current interest in chemistry.

Credits: 6.00

**CHEM 491 - Doctoral Dissertation Research**

Credits: 1.00



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## Courses in Chinese (CHIN)

### CHIN 001 - Elementary

A study of Mandarin Chinese designed to give the beginning student the fundamental grammar and vocabulary for speaking, reading, and writing the modern national language.

Credits: 4.00

### CHIN 002 - Elementary

A study of Mandarin Chinese designed to give the beginning student the fundamental grammar and vocabulary for speaking, reading, and writing the modern national language.

Credits: 4.00

### CHIN 051 - Intermediate

A continuation of 1, 2 designed to enable the student to converse in everyday Chinese, and to read and write simple texts. Prerequisite: 2 or equivalent.

Credits: 4.00

### CHIN 052 - Intermediate

A continuation of 1, 2 designed to enable the student to converse in everyday Chinese, and to read and write simple texts. Prerequisite: 2 or equivalent.

Credits: 4.00

### CHIN 095 - Special Topics

Introductory courses on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

### CHIN 096 - Special Topics

Introductory courses on topics beyond the scope of existing departmental

offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**CHIN 101 - Advanced Chinese**

Structured readings with emphasis on sentence structures, vocabulary expansion, and increased fluency in self-expression. Prerequisite: 52 or equivalent.

Credits: 3.00

**CHIN 102 - Advanced Chinese**

Structured readings with emphasis on sentence structures, vocabulary expansion, and increased fluency in self-expression. Prerequisite: 52 or equivalent.

Credits: 3.00

**CHIN 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**CHIN 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**CHIN 197 - Readings & Research**

Individual research project or directed reading in area of special interest to student.

Prerequisite: Instructor permission. Variable credit.

Credits: 3.00

**CHIN 198 - Readings & Research**

Individual research project or directed reading in area of special interest to student.

Prerequisite: Instructor permission. Variable credit.

Credits: 3.00

**CHIN 201 - Adv Conversation & Composition**

To improve oral and written proficiency through reading news- papers and short stories, discussion, and composition. Prerequisites: 102 or equivalent for 201; 201 for 202.

Credits: 3.00

**CHIN 202 - Adv Conversation & Composition**

To improve oral and written proficiency through reading news- papers and short stories, discussion, and composition. Prerequisites: 102 or equivalent for 201; 201 for 202.

Credits: 3.00

**CHIN 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Prerequisite:

CHIN 202 or equivalent.

Credits: 3.00

**CHIN 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Prerequisites:

CHIN 202 or equivalent.

Credits: 3.00



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## Courses in Civil & Environmental Engr (CE)

### CE 001 - Statics

Fundamentals of statics; composition and resolution of forces; the analysis of force systems in two and three dimensions; and centroids and moments of inertia.

Prerequisite: Math. 22.

Credits: 3.00

### CE 002 - CE Graphic Design

Computer-aided and hand generation of: geometric shapes, dimensioning, pipe drafting, foundations and structures, survey plots, graphs and charts, topography, and highway geometry.

Credits: 3.00

### CE 003 - Intro to Civil & Envir Engr

Introduces Civil and Environmental Engineering through hands-on-design, group projects, inquiry-based learning, exercises. systems thinking, critical thinking, and computational

Credits: 2.00

### CE 010 - Geomatics

An introduction to surveying including distance and angle measurements, leveling, traverse surveys, error propagation, topographical mapping, global positioning systems (GPS), and geographic information systems (GIS). Pre/co-requisites: CEE Sophomore standing, or permission of instructor.

Credits: 4.00

### CE 011 - MATLAB for Solving Engr Prblms

Engineering problem solving, computer programming, standard numeric computation, visualization tools, and systems thinking using MATLAB.

Prerequisite: Concurrent enrollment in MATH 020 or MATH 022.

Credits: 4.00

**CE 012 - Geomatics Lab**

Laboratory exercises in surveying applications: distance, angle, elevation, traverse, topography, global positioning systems (GPS), and geographic information systems (GIS). Pre/co-requisites: CE 10.

Credits: 1.00

**CE 015 - Pollution & Solutions**

Introduction to environmental issues and potential solutions. Emphasis on problem solving: description, decomposition, research, analysis, and performance evaluation.

Credits: 3.00

**CE 100 - Mechanics of Materials**

(Same as Mechanical Engineering 14.) Stress, strain, temperature relationships, torsion, bending stresses, and deflections. Columns, joints, thin-walled cylinders. Combined stresses and Mohr's circle. Prerequisites: CE 1.

Credits: 3.00

**CE 101 - Materials Testing**

Experimental stress analysis methods; fundamental properties of metals, plastics, and wood; effects of size, shape, method, speed of loading, and strain history on these properties. Prerequisite: 100.

Credits: 3.00

**CE 125 - Eng Econ & Decision Analyses**

Comparing engineering alternatives; economic evaluations including costs, returns, taxes, and depreciation; project optimization with linear/non-linear models; scheduling; risk and reliability analyses by simulation. Prerequisite: MATH 021.

Credits: 3.00

**CE 140 - Transportation**

Analysis of transportation systems; technological characteristics; the transportation planning process and techniques of travel modeling and forecasting for both urban and rural areas. Prerequisite: CE 010; Junior standing in CE, or Instructor permission.

Credits: 3.00

**CE 142 - Structural Roadway Design**

Properties of construction materials; design of mixes; analyses of pavement performance; structural design of pavements; highway earthwork, drainage, and construction techniques. Prerequisites: 141, 180.

Credits: 3.00

**CE 150 - Environmental Engineering**

Basic phenomena and theoretical principles underlying water supply, air and water pollution control, and industrial hygiene. Prerequisite: CHEM 031 or CHEM 025, MATH 022.

Credits: 3.00

### **CE 151 - Water & Wastewater Engineering**

Design of treatment systems for water supply, groundwater remediation, domestic and hazardous wastewater, sewer design; semester-long design projects; ethics; environmental health impacts; governmental regulations. Prerequisites: CE 150, 160.

Credits: 3.00

### **CE 154 - Environmental Analytical Practice**

Analytical procedures used in measuring environmental parameters (includes BOD, COD, Alkalinity, Coliform). Fundamental methods applied to actual waste samples and subsequent data analysis. Prerequisites: 150; Chemistry 31.

Credits: 2.00

### **CE 160 - Hydraulics**

Mechanics of incompressible fluids; flow meters; flow in closed conduits and open channels; elements of hydraulic machinery; laboratory studies of flow and hydraulic machinery. Prerequisite: ME 12

Credits: 4.00

### **CE 161 - Water Resource Engineer Design**

Formulation of water resource projects; development of design methods for: surface water, risk, storage, and control structures, open channels, and drainage systems; design project. Prerequisite: CE 160.

Credits: 3.00

### **CE 170 - Structural Analysis I**

Analysis of statically determinate beams, frames, and trusses; expected loads, reactions; influence lines; moving loads; geometric methods for displacement calculations; introduction to matrix analysis for trusses. Prerequisites: 100, Computer Science 16.

Credits: 4.00

### **CE 171 - Structural Analysis II**

Statically indeterminate structural analysis by consistent deformation and stiffness methods; determinations of deflections by energy methods; matrix analysis for frame structures and computer-aided analysis. Prerequisite: CE 170.

Credits: 3.00

### **CE 172 - Structural Steel Design**

Theory and design of steel structures including flexural members, axially loaded members and combined stress members; design of composite members; and

plastic analysis and design. Pre/co-requisite: CE 170.

Credits: 3.00

**CE 173 - Reinforced Concrete**

Analysis of stresses in plain and reinforced concrete members; design of reinforced concrete structures; and theory of prestressed concrete. Prerequisite: CE 170.

Credits: 3.00

**CE 175 - Senior Design Project**

Comprehensive design projects will integrate the multiple areas of specialization in civil engineering. Student teams will prepare and present designs to professional review panels. Prerequisite: Senior standing in CE.

Credits: 3.00

**CE 176 - Senior Design Seminar**

Guest lecturers from private practice discussing professional issues; integration of multidiscipline teams from student design projects; and oral and written presentations. Co-requisite: One design elective; Senior standing.

Credits: 1.00

**CE 180 - Geotechnical Principles**

Characteristics and classification of soils; physical, mechanical and hydraulic properties of soils; seepage; the effective stress principle; stress distribution, consolidation, settlement; shear strength; laboratory testing. Prerequisite: CE 100.

Credits: 4.00

**CE 191 - Special Projects**

Investigation of special topic under guidance of faculty member. Library investigations, unique design problems, laboratory and field studies. Prerequisite: Senior standing; Department permission.

Credits: 3.00

**CE 192 - Special Projects**

Investigation of special topic under guidance of faculty member. Library investigations, unique design problems, laboratory and field studies. Prerequisite: Senior standing; Department permission.

Credits: 3.00

**CE 193 - College Honors**

Credits: 6.00

**CE 194 - College Honors**

Credits: 3.00

**CE 195 - Special Topics**

Prerequisite: Senior standing in Civil Engineering.

Credits: 4.00

**CE 220 - Intro to Finite Element Anyl**

Introduction to finite element analysis: applications in solid mechanics, hydrodynamics, and transport: analysis of model behavior: Fourier analysis.

Computer project required. Prerequisites: computer programming, linear algebra, or permission of Instructor.

Credits: 3.00

**CE 226 - Civil Engineering Systems Anyl**

Linear programming, dynamic programming, network analysis, simulation; applications to scheduling, resource allocation, routing, and a variety of civil engineering problems. Prerequisite: Senior or graduate standing in CEE or instructor permission.

Credits: 3.00

**CE 241 - Traffic Operations & Design**

Advanced concepts of traffic engineering and capacity analysis; highway and intersection capacity; traffic analysis and simulation software; design and application of controls. Prerequisite: CE 140 or permission of instructor.

Credits: 3.00

**CE 245 - Intelligent Transportation Sys**

Introduction to Intelligent Transportation Systems (ITS), ITS user services, ITS applications, the National ITS architecture, ITS evaluation, and ITS standards.

Pre/co-requisites: CE 140 or equivalent, instructor permission.

Credits: 3.00

**CE 248 - Hazardous Waste Mgmt Engr**

Management of hazardous and industrial waste from generation to disposal; emphasis on pollution prevention within industry; waste minimization, recovery, reuse, treatment technologies; environmental regulations, risk assessment, costs and public policy; group projects. Prerequisite: Senior standing in Engineering or sciences.

Credits: 3.00

**CE 251 - Envr Facility Dsgn/Wastewater**

Design of wastewater conveyance and treatment facilities; sewage treatment plant design; equipment selection. Prerequisite: CE 151.

Credits: 3.00

**CE 252 - Industrial Hygiene**

Industrial hygiene problems; effects of pollutants on health; threshold limit values; emphasis on the engineering evaluation of hazard and control techniques.

Prerequisite: CHEM 031 or CHEM 025; PHYS 031.

Credits: 3.00

**CE 253 - Air Pollution**

Sources of air pollution, methods of measurement, standards, transport theory and control techniques used. Emphasis on source measurement and contaminant control design. Prerequisites: Chem 31 or 25, Physics 31.

Credits: 3.00

**CE 254 - Environmental Quantitative Anyl**

Chemistry and microbiology of water quality management; diffusion, equilibria, reaction kinetics, acids and bases, colloids, enzymes, bacterial physiology, pollution indicator organisms; laboratories demonstrate standard techniques.

Prerequisites: Chemistry 31 or 25, Math. 22.

Credits: 4.00

**CE 255 - Phys/Chem Proc Water/Wstwater**

Theory of physical/chemical processes for treating waters and wastewaters; reactor dynamics, mass transfer, adsorption, ion exchange, precipitation. Pre/co-requisites: CE 151, CE 154, or permission of Instructor.

Credits: 3.00

**CE 256 - Biol Proc Water/Wastewater Tr**

Theory and application of biological processes for treating industrial and domestic wastewaters and contaminated ground water; microbiological considerations; aerobic and anaerobic processes; reactor design, in-situ bioremediation; bench-scale and pilot-scale experimentation. Prerequisites: 151 and 154 or equivalent or permission of instructor.

Credits: 3.00

**CE 260 - Hydrology**

Theory of precipitation, run-off, infiltration, and ground water; precipitation and run-off data; and application of data for use in development of water resources.

Prerequisites: 160 or permission of instructor.

Credits: 3.00

**CE 261 - Open Channel Flow**

Application of the laws of fluid mechanics to flow in open channels, design of channels and transition structures, modeling, uniform and gradually-varied flows.

Prerequisite: CE 160.

Credits: 3.00

**CE 265 - Ground Water Hydrology**

Principles of ground water hydraulics, well characteristics, aquifers, and use of numerical methods to solve ground water flow problems. Prerequisites: Math 121 or instructor's permission.

Credits: 3.00

**CE 272 - Structural Dynamics**

Vibrations, matrices, earthquake engineering, stability and wave propagation.

Prerequisites: Senior or graduate standing in Engineering or physical sciences, or instructor permission. (Same as ME 272).

Credits: 3.00

**CE 280 - Applied Soil Mechanics**

Use of soil mechanics in evaluation of building foundations, braced excavations, earth structures; lateral earth pressures, pile foundations, caisson foundations, slope stability, and construction problems. Prerequisite: CE 180.

Credits: 3.00

**CE 281 - Geotechnical Design**

Subsurface explorations; bearing capacity, lateral earth pressures, slope stability; analysis and design of shallow and deep foundations, retaining structures, and slopes. Pre/co-requisite: CE 180.

Credits: 3.00

**CE 282 - Engr Properties of Soils**

Study of soil properties influencing engineering behavior of soils: soil mineralogy, physiochemical concepts, plasticity properties, permeability, and compaction: laboratory study of soil index properties, permeability, compaction tests.

Prerequisite: CE 180 or equivalent.

Credits: 3.00

**CE 283 - Designing with Geosynthetics**

Geotextiles, geogrids, geonets, geomembranes, geocomposites, geopipes.

Design for separation, reinforcement, filtration, drainage, erosion, control, liners. Applications in transportation, drainage, solid waste containment. Material testing, behavior. Prerequisite: CE 180.

Credits: 3.00

**CE 290 - Engineering Investigation**

Independent investigation of a special topic under the guidance of a staff member. Preparation of an engineering report is required.

Credits: 3.00

**CE 295 - Special Topics**

Content is dictated by expanding professional interest in newly developing, or recently developed, technical areas in which there is particular need or opportunity. Prerequisite: Minimum Senior standing.

Credits: 6.00

**CE 304 - Adv Engineering Analysis I**

See Mechanical Engineering 304, 305. Prerequisites: Math 271 or Math 230; CE

304 for CE 305. Cross-listings: ME 304, 305; Math 275, 276.

Credits: 3.00

**CE 305 - Adv Engineering Analysis II**

See Mechanical Engineering 304, 305. Prerequisites: Math 271 or Math 230; CE 304 for CE 305. Cross-listings: ME 304, 305; Math 275, 276.

Credits: 3.00

**CE 321 - Engr Computations on Adv Arch**

Engineering computations using multiprocessing computers, concurrent processing, algorithms for numerical approximation of differential equations, linear systems. Programming projects required.

Credits: 3.00

**CE 361 - Fluvial Forms & Processes**

Advanced topics in fluvial forms and processes; focus on river and stream restoration and design; includes journal readings, discussion, field trips and group design project. Pre/co-requisites: CE 160 or Instructor permission.

Credits: 3.00

**CE 365 - Contaminant Hydrogeol&Remediat**

Practical, theoretical aspects of contaminant hydrogeology, advances in technologies, mass transport and transformation in saturated and vadose zones; movement, distribution, and remediation of nonaqueous-phase liquids.

Prerequisite: CE 265 or with Instructor permission.

Credits: 3.00

**CE 366 - Numerical Method/Surface Water**

Development of the governing equations for geophysical hydrodynamics/transport, shallow water equations, analysis and implementation of finite element/finite difference computational algorithms. Prerequisite: CE 220.

Credits: 3.00

**CE 367 - Phys Flow&Trs thru Porous Mdia**

The fundamental equations describing fluid flow and mass transport in subsurface systems are developed from first principles. Pre/co-requisite: CE 265 or equivalent.

Credits: 3.00

**CE 368 - Groundwater Modeling**

The fundamental theory of groundwater hydrology is combined with concepts in numerical methods to provide the technology needed to study a real-world groundwater problem. Pre/co-requisite: CE 265 and CE 220 or equivalent.

Credits: 3.00

**CE 369 - Applied Geostatistics**



Introduction to the theory of regionalized variables, geostatistics (kriging techniques): special topics in multivariate analysis; Applications to real data subject to spatial variation are emphasized. Pre/co-requisites: Stat 223 or 225; CS16/CE11 or permission. Cross-listings: Stat 369.

Credits: 3.00

**CE 390 - Adv Topics in Civil & Envr Eng**

Special topics to intensify the programs of graduate students in civil and environmental engineering. Hours and credits to be arranged.

Credits: 4.00

**CE 391 - Master Thesis Rsch**

Credits: 1.00 to 12.00

**CE 395 - Advanced Special Topics**

Advanced topics in recently developed technical areas. Hours and credits as arranged.

Credits: 3.00

**CE 491 - Doctoral Dissertation Research**

Credits: 1.00 to 18.00

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## Courses in Classics (CLAS)

### **CLAS 013 - Ideas in the Western Tradition**

Great books of Western civilization in their historical setting. Greece and Rome. Prerequisites: Concurrent enrollment in ENGS 027, ENGS 028, REL 027, REL 028; Integrated Humanities Program. Cross-listed with: HST 013.

Credits: 3.00

### **CLAS 015 - From Letters to Literature**

Topics in script, literacy, books, libraries, cultural expression, preservation, and access from ancient Mesopotamia to the age of printing and the era of electronic information.

Credits: 3.00

### **CLAS 021 - Classical Greek Civilization**

A study of the "Golden Age of Pericles," the course covers the whole of Athenian society from art to war, culminating in the trial of Socrates. Cross-listed with: HST 021.

Credits: 3.00

### **CLAS 022 - Etymology**

Derivation of English words from Greek and Latin bases. Training in analysis of unfamiliar words, special attention to scientific vocabulary.

Credits: 3.00

### **CLAS 023 - Classical Roman Civilization**

Growth of the Roman Empire; political and social disruption in the Roman world from the second century B.C.E., through the first century C.E. Cross-listed with: HST 022.

Credits: 3.00

**CLAS 024 - Myths/Legends Trojan War**

Homeric epics, Virgil's Aeneid, selections from tragedy dealing with the Trojan War and Greco-Roman cultural identity. Examples from art and archaeology supplement the literary theme. Cross-listed with: WLIT 024.

Credits: 3.00

**CLAS 035 - The End of the Roman Republic**

Participants describe the Republic's end: Caesar justifies conquest and civil war; Catullus and Sallust reveal a society in turmoil; Cicero documents first-century politics: political gangs, bribery, and violence. Cross-listed with: WLIT 035.

Credits: 3.00

**CLAS 037 - Early Roman Empire: Lit Trans**

Poetry and prose in the first century C.E. (the age of Augustus, Nero, Trajan), emphasizing varieties and limitations of political and literary freedom. Cross-listed with: WLIT 037.

Credits: 3.00

**CLAS 042 - Mythology**

Greek myth in literature, art, and music from antiquity to modern times. No prerequisites. Spring semester. Cross-listed with: WLIT 042.

Credits: 3.00

**CLAS 095 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**CLAS 096 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**CLAS 121 - History of Greece**

Political and social developments of ancient Greece: birth of democracy, conflict of autonomy and hegemony, federal states, invention of "otherness," spatial and cultural restraints on citizenship. Prerequisite: HST 009, or CLAS 021/ HST 021, or appropriate work in Classics. Cross-listed with: HST 121.

Credits: 3.00

**CLAS 122 - History of Rome**

Expansion of Rome in Italy and conquest of the Mediterranean world: cultural conflict, development of a unifying national identity, and the foundation of European states. Prerequisite: HST 009, CLAS 023/HST 022, or appropriate work in Classics. Cross-listed with: HST 122.

Credits: 3.00

**CLAS 145 - Comparative Epic**

Interdisciplinary introduction to epic poetry and performance, from Gilgamesh and the Homeric poems to the Kalevala traditions of Finland to the griot poetry and music of West Africa. Prerequisite: Sophomore standing. Cross-listed with: WLIT 145.

Credits: 3.00

**CLAS 149 - History of Ancient Near East**

Survey of primary civilizations of Egypt and Mesopotamia and the secondary cultures of Anatolia, Syria-Palestine, Assyria, and Persia. Prerequisites: HST 009 or CLAS 021 (HST 021) or appropriate work in Classics. Cross-listed with: HST 149.

Credits: 3.00

**CLAS 153 - Greek Drama**

Plays of Aeschylus, Sophocles, Euripides, and Aristophanes in their historical and cultural setting. Prerequisite: Sophomore standing. Cross-listed with: WLIT 153.

Credits: 3.00

**CLAS 154 - Stories and Histories**

Creation and development of genres which the Greeks and Romans used to represent true narratives about people or events, especially the development of historical writing. Prerequisite: Sophomore standing.

Credits: 3.00

**CLAS 155 - Ancient Epic**

Homer, Apollonius, and Vergil, as well as readings selected from other Greek and Latin epic (including epyllia) and didactic poetry. Prerequisite: Sophomore standing. Cross-listed with: WLIT 155.

Credits: 3.00

**CLAS 156 - Satiric Spirit**

Comedy, satire, epigram, and prose fantasy as vehicles for political, social, and literary criticism in the Greco-Roman world. Prerequisite: Sophomore standing. Cross-listed with: WLIT 156.

Credits: 3.00

**CLAS 157 - Greek Feminism**

The construction of the status of women in ancient Greek society. Readings include lyric, tragic, and comic poetry, philosophy, oratory, novel, and nonliterary documents. Prerequisite: Sophomore standing; three hours in literature, History, Anthropology, or Sociology. Cross-listed with: HST 157, WLIT 157, WGST 157.

Credits: 3.00

**CLAS 158 - Greco-Roman Political Thought**

History of Greco-Roman political thought and political reality, as revealed by lawgivers, philosophers, politicians, and historians. Prerequisite: Sophomore

standing.

Credits: 3.00

**CLAS 161 - Plato**

A survey of Plato's works, including the "early," "middle," and parts of the "late" dialogues. Emphasis will be laid on reading the dialogues themselves.

Prerequisite: One course in Philosophy, or one course in Classics (Greek Culture or Greek). Cross-listed with: PHIL 108.

Credits: 3.00

**CLAS 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**CLAS 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**CLAS 197 - Readings & Research**

Credits: 3.00

**CLAS 198 - Readings & Research**

Credits: 4.00

**CLAS 221 - Seminar in Ancient History**

Selected aspects of Near Eastern, Greek, or Roman History (e.g. trade and colonization, imperialism, social and political institutions, cultural and intellectual developments). Prerequisite: Minimum Junior standing; Twelve hours of History.

Credits: 3.00

**CLAS 222 - Seminar in Ancient History**

Selected aspects of Near Eastern, Greek, or Roman History (e.g. trade and colonization, imperialism, social and political institutions, cultural and intellectual developments). Prerequisites: Junior, senior, or graduate standing, 12 hours of history. UG only.

Credits: 3.00

**CLAS 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**CLAS 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00



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## Courses in Cmty Dev & Apld Econ (CDAE)

### CDAE 001 - Drafting and Design Drawing

Basic drafting methods and procedures of architectural, three-view, oblique, isometric, and perspective drawings. Creating freehand pictorial presentation drawings.

Credits: 3.00

### CDAE 002 - World Food,Population&Develop

Agricultural development emphasizing natural and economic phenomena and the effect of food supplies on population trends and policies.

Credits: 3.00

### CDAE 006 - Energy Alternatives

Concepts of energy, work, and power. Energy conversion, utilization, and conservation. Alternatives to fossil fuels including solar, wind, biomass, etc. Energy systems for rural areas.

Credits: 3.00

### CDAE 015 - Design Strategies

Introduction and analysis of aesthetics and function of design in the context of communications and marketing, the built environment, and community development.

Credits: 3.00

### CDAE 016 - Sketching and Illustration

Techniques of sketching, color rendering, and scale drawing in relation to nature forms, the human figure, and interior space. Preparation of portfolio. Prerequisite: 15. Spring.

Credits: 3.00

**CDAE 030 - Des Studio Skills:Woodworking**

Common methods, processes, materials, and equipment employed in transforming wood into useful products.

Credits: 3.00

**CDAE 035 - Des Stdy Skills:Weldng/Metl Fab**

Skills, tools, and processes to cut, shape, and join metallic materials intended for artisans, designers, and craftpersons. Emphasis on welding, machining, and metal fabrication.

Credits: 3.00

**CDAE 061 - Prin A&R&Community Developmt Ec**

Introduction to principles of microeconomics and their application to food and agricultural markets, resource management, and community development.

Credits: 3.00

**CDAE 091 - Introductory Special Topics**

Credits: 3.00

**CDAE 101 - Computer Aided Drafting&Design**

Using a computer to create, manipulate, and record drafting and design concepts, symbols, and conventions to prepare technical and/or presentation drawings.

Prerequisite: CDAE 001 or Instructor permission.

Credits: 3.00

**CDAE 102 - Sustainable Community Dev**

Introduction to perspectives and methods used to develop healthy communities that are economically, socially, and environmentally sustainable with rural and urban, U.S. and international examples. Prerequisites: CDAE 61 or equivalent, and by permission.

Credits: 3.00

**CDAE 110 - Entrepreneurial Indust Prodctn**

Principles, concepts, methods employed in organizing capital, labor, tools, machines for producing products. Students function as labor source and mass produce and market a product. Prerequisite: CDAE 030 or CDAE 035, or CDAE 166, or Instructor permission.

Credits: 3.00

**CDAE 117 - History of Costume**

(See Theatre 41.) Prerequisite: Art 6 or Theatre 1. Fall

Credits: 3.00

**CDAE 127 - Consumer,Markets&Public Policy**

Analysis of consumer choices through the examination of consumer behavior theories, current marketplace issues and public policy. Prerequisites: Sophomore

standing.

Credits: 3.00

**CDAE 128 - The Consumer & Advertising**

Examination of advertising strategy and how it impacts consumers and the economy. Extensive application of critical analysis to actual advertising campaigns from development through evaluation. Prerequisite: Junior standing. Fall.

Credits: 3.00

**CDAE 129 - Communication Law**

Legal aspects of the mass media, including: freedom of speech; libel; privacy; obscenity; copyright and trademark; advertising. Pre/co-requisites: Sophomore standing.

Credits: 3.00

**CDAE 131 - Light Frame Buildings**

Site planning, building planning, material selection. Functional and structural considerations including heating, ventilating, and insulation. Consideration of environmental relationships. Prerequisite: CDAE 006 or MATH 009 or MATH 010.

Credits: 3.00

**CDAE 156 - Law, Ethics & Responsibility**

The roles of law and ethics in guiding the actions of individuals and organizations, and the impact of those actions on others, including consumers, employees, communities, and developing countries. Prerequisite: Sophomore standing. Spring.

Credits: 3.00

**CDAE 157 - Consumer Law and Policy**

Law as an expression of public policy to protect consumers in the marketplace. Emphasis on laws prohibiting deceptive advertising and marketing practices. Prerequisites: Sophomore standing.

Credits: 3.00

**CDAE 158 - Personal and Family Finance**

An examination of personal and family financial management concepts and topics within various income levels and stages in the life cycle. Prerequisite: EC 011 or equivalent. Fall.

Credits: 3.00

**CDAE 159 - Consumer Assistance Program**

Jointly sponsored by UVM and Vermont Attorney General. Under supervision of an attorney, students respond to phone and mail requests for consumer information and handle consumer complaints. Prerequisite: Sophomore standing. Three to six hours.

Credits: 3.00



**CDAE 166 - Intro A&R Entrepreneurship**

Introduction to the theory and practice of organizing and operating an agricultural or resource-based business. Emphasis on business development, operation, financing, marketing, and social responsibility. Prerequisite: Sophomore standing. Credits: 3.00

**CDAE 167 - Fin Mgmt: A&R Entrepreneurship**

Financial management concepts for agricultural and resource-based businesses, with emphasis on interactions between business and personal financial decisions faced by entrepreneurs. Prerequisites: BSAD 65, CDAE 166 or permission. Credits: 4.00

**CDAE 168 - Marketing:A&R Entrepreneurship**

Marketing concepts and methods and their applications in agricultural and resource businesses. Focus on development of marketing plan and its use in guiding business operations. Prerequisites: CDAE 61, 166. Credits: 3.00

**CDAE 169 - Small Business Computer Appl**

Using the microcomputer to accomplish tasks specific to small businesses. One credit modules may include spreadsheets, databases, presentations, mapping markets, WWW, project management and local area networks. Prerequisites: 85 or equivalent. One to six hours. Credits: 3.00

**CDAE 170 - Solar Strategies Bldg Constrct**

Passive, active, and hybrid heating; photovoltaic electric systems. Physical principles, site evaluation, component and system analysis, materials selection, and design of low-cost systems. Prerequisite: Math 10 or permission. Credits: 3.00

**CDAE 171 - Community&Int'l Econ Transform**

Models of economic development, including constraints to economic transformation and policy approaches and strategies for promoting social welfare and sustainable development. Prerequisites: 2,61 or equivalent. Credits: 3.00

**CDAE 175 - Farm Credit Fellowshp Prac/Sem**

Acquaints students who have a strong interest in farm management and farm finance with financial intermediaries serving agriculture. Prerequisite: CDAE 167. Credits: 3.00

**CDAE 180 - Real Estate Appraisal**

Basic concepts and methods of measuring real estate values. Prerequisite: CDAE 061 or equivalent, or Instructor permission.

Credits: 3.00

**CDAE 191 - Special Problems**

Independent projects under direction of a faculty member. Includes undergraduate teaching assistance. 291 number for juniors and seniors only. Prerequisites: Permission. One to six hours (maximum).

Credits: 3.00

**CDAE 195 - Special Topics**

Lectures or readings on contemporary issues in Community Development and Applied Economics. Enrollment may be more than once, up to twelve hours.

Credits: 9.00

**CDAE 196 - Field Experience/Practicum**

Professionally-oriented field experience under joint supervision by faculty and business or community representative. Total credit toward graduation in 196 and 296 cannot exceed 15 hours. Prerequisites: Permission. One to 15 hours.

Credits: 6.00

**CDAE 205 - Rural Comm in Modern Society**

The changing structure and dynamics of rural social organization in context of modernization and urbanization. Emphasis on rural communities in the U.S.

Prerequisite: Six hours of Sociology. Cross-listed with: SOC 205.

Credits: 3.00

**CDAE 208 - Agricultural Policy and Ethics**

An examination of American agriculture and policies from various perspectives - historical, political, ecological, technological, social, economic, and ethical.

Emphasis on contemporary issues, policy options, and future development.

Prerequisites: 61 or equivalent, permission. Fall.

Credits: 3.00

**CDAE 210 - Small Bus Mktg & Entrepreneur**

Students learn through participation in a series of guest lectures and field trips, the challenges, opportunities, and strategies faced and employed by small business entrepreneurs in the area of marketing. Prerequisite: 168 or 207. Spring. (Not offered for graduate credit.)

Credits: 3.00

**CDAE 218 - Community Ldrshp,Org&Inst Dev**

Role of civic engagement, leadership, and social and political institutions in a community development context. Special attention given to problems of formulation and implementation of alternative change strategies. Prerequisites: Jr standing, CDAE 102, or permission.

Credits: 3.00

**CDAE 231 - Applied Computer Graphics**

Directed research, planning, design, technical experimentation, production and evaluation for computer-generated design application. Prerequisite: 15 or permission.(Not offered for graduate credit.)

Credits: 3.00

**CDAE 237 - Economics of Sustainability**

Economic analysis that integrates natural resource and community planning for sustainable development at local, national and international levels. or permission. and green business. Prerequisites: 61 or equivalent, Examples include land use, sustainable agriculture

Credits: 3.00

**CDAE 250 - Applied Research Methods**

Methods used in the collection and analysis of qualitative and quantitative data. Critical review of literature, and data collection, analysis, and interpretation for descriptive, inferential, and evaluation research. Prerequisites: Statistics 141 or permission. UG only.

Credits: 4.00

**CDAE 251 - Contemp Policy Iss:Comm Devel**

In-depth study of contemporary community development policy issues such as affordable housing, land use and sprawl, alternative energy, environmental sustainability, effective community planning, social and environmentally UG only. responsible business. Prerequisites: CDAE 102 or permission.

Credits: 3.00

**CDAE 253 - Macroeconomics for Appl Econ**

Explore macroeconomic principles and concepts as they affect individuals and businesses in local, regional, national, and global economics. Prerequisites: Economics 11, and CDAE 61 or equivalent.

Credits: 3.00

**CDAE 254 - Microeconomics for Appl Econ**

The study of economic choices of individuals and firms, and the analysis of competitive and noncompetitive markets. Emphasis on application of intermediate microeconomic theory Prerequisites: 61 or equivalent. Math 19, or permission.

Credits: 3.00

**CDAE 255 - Applied Consumption Economics**

Analysis and application of micro-economic principles as they relate to consumers, including consumption and saving, investments in human capital, market work, household production, and leisure choices. Prerequisites: ECON 172. UG only.

Credits: 3.00

**CDAE 258 - Consumer Policy:Iss & Analysis**

Examination and analysis of contemporary issues underlying a variety of consumer policies such as health care, income inequality, and consumer protection. Prerequisites: 254 or permission, Political Science 21 or similar course. Spring. (Not offered for graduate credit.)

Credits: 3.00

**CDAE 264 - Risk Anyl&Forecast Procedures**

Analytical concepts and skills and their applications in risk analysis related to agricultural and resource markets focusing on decision making processes.

Prerequisite: STAT 141, CDAE 061, MATH 019, or Instructor permission.

Credits: 3.00

**CDAE 266 - Dec Making:A&R Entrepreneurshp**

Quantitative decision-making methods and applications in agricultural and resource businesses. Major topics include linear programming, risk and uncertainty, inventory decisions, and e-commerce. Prerequisites: CDAE 166, Math 19, and AGRI 85 or CS 2.

Credits: 3.00

**CDAE 267 - Strat Plan:A&R Entrepreneurshp**

Applications of marketing, finance, and management strategies. Drafting a simulated business plan for rural entrepreneurs and economic development.

Prerequisites: ARE majors or minors, or with instructor's permission; senior standing.

Credits: 4.00

**CDAE 272 - Int'l Economic Development**

International trade, finance, investment and development theories and policies for community development. Prerequisites: Jr standing, CDAE 102 or instructor's permission. with 273.

Credits: 3.00

**CDAE 273 - Project Development & Planning**

National, community and private sector project development. Focus on planning methods and policy instruments, sectoral linkages, and contributions to the economy as a whole. Prerequisite: 171 or instructor's permission.

Credits: 3.00

**CDAE 291 - Special Problems**

Independent projects under the direction of a faculty member. Includes undergraduate teaching assistance. Prerequisite: Departmental permission.

Students may enroll more than once for a maximum of 12 hours. One to six hours.

Credits: 6.00

**CDAE 292 - Seminar**

Reports, discussions, and investigations in selected fields. May enroll more than

once up to six hours. One to three hours.

Credits: 3.00

**CDAE 295 - Special Topics**

Lectures or readings on contemporary issues in Community Development and Applied Economics. Enrollment may be more than once, up to twelve hours.

Credits: 9.00

**CDAE 296 - Field Experience/Practicum**

Professionally-oriented field experience under joint supervision by faculty and business or community representative. Total credit toward graduation in 196 and 296 cannot exceed 15 credits. UG only.

Credits: 3.00

**CDAE 297 - Undergraduate Research**

Work on a research problem under direction of a staff member. Findings submitted in written form as prescribed by the department. Prerequisite: Senior standing.

Credits: 3.00

**CDAE 298 - Undergraduate Research**

Work on a research problem under direction of a staff member. Findings submitted in written form as prescribed by the department. Prerequisite: Senior standing.

Credits: 3.00

**CDAE 351 - Research Methods**

Developing research projects with the scientific methods; evaluating alternative literature review, sampling, surveying, and analytic methods; and reporting the results. Prerequisite: Three hours of Statistics.

Credits: 3.00

**CDAE 354 - Advanced Microeconomics**

Principles and applications of advanced microeconomics: consumer and market demand, firm and market supply, perfect and imperfect markets, partial and general equilibrium, and policy analysis. Prerequisite: CDAE 254 or equivalent.

Credits: 3.00

**CDAE 377 - Practicum in Extension Educ**

Credits: 1.00 to 12.00

**CDAE 391 - Master's Thesis Research**

Credits: 6.00

**CDAE 392 - Graduate Seminars**

Report and discuss research projects and findings of graduate students and faculty, and offer workshops on selected topics in community development and applied economics. May enroll more than once for up to three credits.

Prerequisite: Graduate standing.

Credits: 1.00

**CDAE 395 - Special Topics**

Lectures or readings on contemporary issues in Community Development and Applied Economics at the graduate level. Prerequisite: Graduate standing.

Credits: 3.00

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## 2005-06 Online Catalogue

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## Courses in Communication Sciences (CMSI)

### **CMSI 001 - Elem American Sign Language 1**

Fundamentals of expression and understanding of American Sign Language, including grammar, facial markers, body classifiers, vocabulary, and fingerspelling. Elements of Deaf Culture are also explored.

Credits: 4.00

### **CMSI 002 - Elem American Sign Language II**

Continuation of fundamentals of expression and understanding of American Sign Language, including grammar, facial markers, body classifiers, vocabulary, and fingerspelling. Elements of Deaf Culture are also explored. Prerequisites: CMSI 1 or equivalent experience.

Credits: 4.00

### **CMSI 020 - Intro to Disordered Comm**

Survey of language, speech, and hearing disorders, emphasizing the importance of understanding such disorders as a part of the fuller understanding of human behavior.

Credits: 3.00

### **CMSI 051 - Intermediate Sign Language**

Continuation of 1, 2 designed to foster further development of proficiency in American Sign Language and appreciation of Deaf Culture. Prerequisites: CMSI 2, or equivalent experience.

Credits: 3.00

### **CMSI 080 - Introduction to Linguistics**

Introduction to biological, cognitive, and cultural bases of human communication through language, and to modern linguistic theory. Assignments provide opportunities for critical thinking and writing.

Credits: 3.00

**CMSI 090 - Phonetics**

Linguistic, acoustic, and articulatory phonetics applied to the description of speech. Stresses use of the International Phonetic Alphabet with English, foreign languages, and disordered speech.

Credits: 3.00

**CMSI 094 - Dev of Spoken Language**

Speech and language acquisition interpreted in light of current learning and cognitive theory, linguistic theory, and methods of linguistic analysis.

Credits: 3.00

**CMSI 095 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**CMSI 096 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**CMSI 101 - Speech & Hearing Science**

Structure and function of the respiratory, phonatory, articulatory, and hearing systems, coupled with models of speech and hearing as part of human communication.

Credits: 4.00

**CMSI 125 - Clinical Experience**

A supervised exposure to clinical practice in speech-language pathology. Students gain experience as assistants in the University speech-language clinic.

Prerequisite: Six hours in Communication Sciences.

Credits: 3.00

**CMSI 126 - Clinical Experience**

A supervised exposure to clinical practice in speech-language pathology. Students gain experience as assistants in the University speech-language clinic.

Prerequisite: Six hours in Communication Sciences.

Credits: 3.00

**CMSI 160 - Intercultural Communication**

Exploration of communication between individuals of different races, socioeconomic status, ethnic groups, genders, and occupations. Emphasis on culturally-based misunderstanding, conflict, and resolution.

Credits: 3.00



**CMSI 162 - American English Dialects**

Class will examine dialects of American English and the methodology of dialectology with focus on Vermont speech and the social meaning of dialect variation. Cross-listed with ENGS 103.

Credits: 3.00

**CMSI 164 - Structure of English Language**

Using descriptive linguistic theory, this course examines basics of English grammar with emphasis on hands-on examples. Also includes exploration of politicization of English grammar. Prerequisites: 3 hours English or CMSI. Cross-listed with ENGS 101.

Credits: 3.00

**CMSI 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**CMSI 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**CMSI 197 - Readings & Research**

Instructor permission.

Credits: 3.00

**CMSI 198 - Readings & Research**

Instructor permission.

Credits: 2.00

**CMSI 208 - Cognition & Language**

Study of cognition and language in terms of mental representation models; contemporary models of memory, as well as capacity theories of language comprehension and production. Prerequisite: PSYC 109, 161 or instructor permission. Cross-listed: PSYC 208.

Credits: 3.00

**CMSI 262 - Measurement of Comm Processes**

Introduction to the scientific method and measurement principles used in group and single-case research on communication and as applied to persons with communication disorders. Prerequisites: CMSI 80, 101; Statistics 111 or 141. UG only.

Credits: 4.00

**CMSI 271 - Introduction to Audiology**

Survey of the process of hearing and the nature and causes of hearing impairment. Examination of hearing assessment, including pure-tone, speech and immittance audiometry. Prerequisites: CMSI 101 or instructor permission.

Credits: 3.00

**CMSI 272 - Hearing Rehabilitation**

Examination of impact of hearing loss on communication and management. Survey of remediation strategies, including speechreading, auditory training, hearing aids, cochlear implants and assistive devices. Prerequisites: CMSI 271 or instructor permission.

Credits: 3.00

**CMSI 274 - Culture of Disability**

Focus on theoretical questions of how societies understand disability and its consequences for social justice, by examining the biological, social, cultural, political, and economic determinants in the societal construction of disability. Prerequisites: Junior, Senior or graduate standing. Cross-listing: EDSP 274.

Credits: 3.00

**CMSI 281 - Cognitive Neuroscience**

The structure and organization of the human central nervous system as related to higher cognitive and linguistic behaviors. Pre/corequisites: a college level Human Biology course, such as BIOL 4. Not for graduate credit.

Credits: 3.00

**CMSI 283 - Swallowing Disorders**

Introduction to normal and disordered swallowing function across the life span including etiologies, signs/symptoms of dysphagia, diagnostic procedures and treatment within an interdisciplinary model. Prerequisites: Nine hours in Communication Sciences or instructor's permission.

Credits: 3.00

**CMSI 284 - Augmentative Communication**

An introduction to development and selection of augmentative/alternative communication strategies and systems for persons with severe communication challenges. Prerequisites: Nine hours in Communication Sciences or instructor's permission.

Credits: 3.00

**CMSI 285 - Collab Intervntn Schl Settings**

Introduction to a transdisciplinary approach to collaborative, curriculum-based assessment and intervention for students with special needs in school settings. Prerequisites: Graduate standing, or Undergraduate by instructor permission.

Credits: 3.00

**CMSI 287 - Early Lang&Communicat'n Interv**

Research in normal and disordered language, cognition, and social development is applied to interventions for children, birth to age 5, with language and communication problems. Prerequisite:CMSI 94.

Credits: 3.00

**CMSI 291 - Clinical Study**

Supervised practicum experiences with children and adults presenting disorders of speech, hearing, and language. Prerequisite: Permission

Credits: 3.00

**CMSI 292 - Clinical Study**

Supervised practicum experiences with children and adults presenting disorders of speech, hearing, and language. Prerequisite:Permission

Credits: 3.00

**CMSI 293 - Seminar**

Prerequisite: Instructor's permission. Variable credit.

Credits: 3.00

**CMSI 294 - Seminar**

Prerequisite: Instructor's permission. Variable credit.

Credits: 3.00

**CMSI 295 - Advanced Special Topics**

Advanced Special Topics Advanced courses of seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. UG only.

Credits: 3.00

**CMSI 296 - Advanced Special Topics**

UG only.

Credits: 3.00

**CMSI 298 - Senior Seminar**

Credits: 3.00

**CMSI 299 - Autism Spect Dis:Assess&Interv**

Assessment and intervention considerations in communication, social interaction and play, selection and use of evaluation tools, and implementation of intervention strategies for children with autism.

Credits: 3.00

**CMSI 310 - Clinic Preparation&Management**

Principles of behavioral observation, analysis and modification as they apply to the assessment and remediation of communication disorders. Prerequisite:permission

Credits: 3.00

**CMSI 311 - Intrdsc Sem Neurodev Disabil I**

Seminar exploring interdisciplinary process, collaborative teaming, cultural competence and family-centered care as they relate to children and families affected by neurodevelopmental and related disabilities. Pre/co-requisites: Permission of Instructor. Cross-listings: EDSP 295, GRNU 296, PSYC 380, MVSR 381, SWSS 380.

Credits: 3.00

**CMSI 312 - Intrdsc Sem Neurodev Disabil 2**

Seminar exploring interdisciplinary process, collaborative teaching, cultural competence and family-centered care as they relate to children and families affected by neurodevelopmental and related disabilities. Pre/co-requisites: Permission of Instructor. Cross-listings EDSP 295, GRNU 296, PSYC 380, MVSR 381, SWSS 380.

Credits: 3.00

**CMSI 371 - Audiolog Assess:Spch-Lang Path**

Examination of basic hearing parameters designed for SLPs. Orientation to nature and causes of hearing impairment; assessment procedures and rationales; hearing screening and counseling/management issues. Prerequisites: CMSI 101 or instructor permission.

Credits: 3.00

**CMSI 372 - Mgmt&Habil/Child w/Hearing Imp**

Survey effects of hearing impairment on children's communication, academic and psychosocial development. Orientation to amplification, assistive devices, managing listening environments, auditory training, and educational planning. Prerequisites: CMSI 271 or 371 or instructor permission.

Credits: 3.00

**CMSI 380 - Rsch Methods in Comm Disorders**

Empirical research methodology as applied to the study of normal and deficient speech, language, and hearing processes. Students analyze data statistically and write a research proposal.

Credits: 3.00

**CMSI 381 - Advanced Readings**

Readings, with conferences, intended to contribute to the programs of graduate students in phases of communication science and disorders for which formal courses are not available. Credit as arranged, up to three hours each semester.

Credits: 3.00

**CMSI 382 - Advanced Readings**

Readings, with conferences, intended to contribute to the programs of graduate

students in phases of communication science and disorders for which formal courses are not available. Credit as arranged, up to three hours each semester.

Credits: 3.00

**CMSI 383 - Seminar Lang/Lrng Disabilities**

Assessment and intervention issues for school-age children and adolescents with language learning disabilities are discussed emphasizing research to practice and oral language and literacy connections. Prerequisite: Permission of instructor or graduate standing.

Credits: 3.00

**CMSI 384 - Articulation-Phonological Dis**

Etiology, diagnosis, pathology, and habilitation and rehabilitation of articulation of speech. Prerequisite: Graduate Standing.

Credits: 3.00

**CMSI 385 - Voice Disorders**

Study of normal and abnormal laryngeal anatomy and physiology as they relate to diagnoses and treatment of a wide variety of vocal pathologies. Prerequisite: CMSI 101 or instructor permission.

Credits: 3.00

**CMSI 386 - Adult Neuropathologies**

Etiology, pathology, diagnosis, and principles of rehabilitation of CNS pathologies affecting communication. Emphasis on motor speech disorders and cognitive consequences of traumatic brain injury. Prerequisites: CMSI 281, 389 or equivalent.

Credits: 3.00

**CMSI 387 - Language Disorders**

Identification, evaluation, and rehabilitation procedures for children with language disabilities. Prerequisite: CMSI 94.

Credits: 3.00

**CMSI 388 - Stuttering**

Study of adult and child fluency disorders which focuses upon symptomatology, etiology, diagnosis, and rehabilitation of stuttering patients. Prerequisite: Stuttering Boot Camp, admission to CMSI graduate program.

Credits: 3.00

**CMSI 389 - Aphasia in Adults**

Study of linguistic and cognitive impairments associated with stroke and other types of neuropathologies in the adult patient. Emphasis on rehabilitation strategies, principles, and procedures. Prerequisite: CMSI 281.

Credits: 3.00

**CMSI 391 - Master's Thesis Research**

Credits: 1.00 to 6.00

**CMSI 392 - Non Thesis Research**

Credits: 1.00 to 6.00

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## Courses in Computer Science (CS)

### CS 002 - MS Office: Beyond the Basics

Word documents looking dull? Excel charts lacking something? PowerPoint slides fizzling? All this and more is covered. Learn more than just the basics.

Credits: 3.00

### CS 003 - Concepts of Computer Systems

Introduction to computer systems, components, system software, editors, utilities and language processors, programming, problem solving, applications. May not be taken for credit concurrently with, or following receipt of credit for, any CS course numbered higher than CS 003. Prerequisite: Two years high school algebra.

Credits: 3.00

### CS 005 - Introductory Special Topics

Prerequisite: Instructor permission. Hours variable. May not be taken for credit after any Computer Science course numbered CS 016 or higher.

Credits: 3.00

### CS 008 - Introduction: WWW Design (2-2)

Provides a strong foundation in HTML, working with images, beginning JavaScript programming, and web design so that the student can create a functional web site.

Credits: 3.00

### CS 014 - Visual Basic Programming

Programming in the MS Windows environment using forms, objects, methods, functions, and code. Creation of regular applications and customized office suite applications.

Credits: 3.00

**CS 016 - Prog MATLAB Engineers&Science**

Problem solving, computer programming, and the use of standard numerical methods, visualization and systems thinking in the context of engineering and scientific applications using MATLAB. Prerequisite: Concurrent enrollment in Math 20 or 22.

Credits: 4.00

**CS 019 - Introduction to Programming**

A gentle introduction to computer programming using Java Applets on web pages. Topics include selection, repetition, functions, objects, event-driven programming, arrays, inheritance, GUI design. Pre/co-requisites: No credit after CS 21 or higher.

Credits: 3.00

**CS 021 - Computer Programming I**

Introduction to algorithmic problem solving. Designed to provide a foundation for further studies in computer science. Credit not given for more than one in the pair CS 11, 21. Prerequisite: Math. 10 or a strong background in secondary school algebra and trigonometry.

Credits: 4.00

**CS 026 - Computer Programming II**

Introduction to more advanced programming concepts that provide a foundation for further study in computer science. Topics include data structures and algorithms, concepts of style, design, documentation, testing and debugging techniques. Prerequisites: 21.

Credits: 3.00

**CS 031 - Computer Programming II: C**

Credits: 3.00

**CS 032 - Puzzles, Games & Algorithms**

Introductory computer science through exploration and analysis of mathematical puzzles and games, and the algorithms that handle them.

Credits: 3.00

**CS 042 - Dynamic Data on the Web**

Data is everywhere; Learn to collect, organize, and classify it. Students will design and create tables, queries and reports on the web using introductory programming.

Credits: 3.00

**CS 095 - Special Topics**

Prerequisite: Instructor's permission.

Credits: 4.00



**CS 100 - Object-Oriented Programming**

Object-oriented software analysis, design, and programming using a modern object-oriented programming environment. Topics include encapsulation, information hiding, inheritance, and polymorphism. Prerequisite: 26.

Credits: 3.00

**CS 101 - Computer Organization**

Introduction to computer system organization including performance, assembly language, machine-level data representation, arithmetic for computers, processor datapath control, memory, and input/output. Prerequisite: CS 026.

Credits: 4.00

**CS 103 - Programming Languages**

Systematic treatment of principles underlying the features and implementation of programming languages. Contrast of traditional procedural languages and at least one nontraditional language. Prerequisite: CS 026.

Credits: 3.00

**CS 104 - Data Structures**

Lists, Strings, Arrays, Trees and Graphs. Storage systems and structures. Storage allocation and garbage collection. Searching and sorting techniques. Generalized data management systems. Prerequisite: CS 026, MATH 052 or MATH 054.

Credits: 3.00

**CS 148 - Database Design for the Web**

Design and implementation of a relational database model using SQL and PHP. Typical project includes creation of ecommerce shopping site. Prerequisites: One semester of programming,

Credits: 3.00

**CS 192 - Independent Service & Teaching**

Independently designed project or pedagogical experience that benefits the University or the Community under the direction of a CS faculty member. Requires final presentation. Pre/co-requisite: Department permission.

Credits: 3.00

**CS 195 - Special Topics**

Prerequisite: Instructor's permission.

Credits: 6.00

**CS 201 - Operating Systems**

Supervisory and control software for multiprogrammed computer systems. Processes synchronization, interprocess communication, scheduling, memory management, resource allocation, performance evaluation, object-oriented systems, case studies. Prerequisites: 103, 104.

Credits: 3.00

### **CS 202 - Compiler Construction**

Practice in design and implementation of translators for ALGOL-like languages. Regular and context-free grammars, parsing, code generation for stack and register machines. Interpreters. Run-time storage administration for block-structured languages. Prerequisites: 103, 243.

Credits: 3.00

### **CS 204 - Database Systems**

Techniques for processing very large collections of data. Secondary storage. Database design and management. Query languages and optimization. Database recovery. Prerequisites: 101, 104; 201 recommended.

Credits: 3.00

### **CS 205 - Software Engineering**

Treatment of software engineering problems and principles, including documentation, information hiding, and module interface specification syntax and semantics. Requires credit for 205 may not receive credit for 208 or 209. participation in a team project. Students who receive

Credits: 3.00

### **CS 208 - Software Requirements&Design**

Project management, requirements for software products, design methodologies and formal and informal notations describing designs. Includes developing requirements and design for a substantial software product. Credit not awarded for more than one of 205 and 208. Prerequisites: CS 100, CS 104.

Credits: 3.00

### **CS 209 - Software Implement&Verificat'n**

Covers advanced program development methodologies, software performance measuring and tuning and the verification and validation of software. Includes a significant implementation and evaluation project. Credit not awarded for more than one of 205 and 209. Prerequisites: CS 100, CS 104.

Credits: 3.00

### **CS 222 - Computer Architecture**

Architecture of computing systems. Control unit logic, input/output processors and devices, asynchronous processing, concurrency, parallelism, and memory hierarchies. Prerequisite: 101.

Credits: 3.00

### **CS 224 - Analysis of Algorithms**

Introduction to both analytical and experimental techniques in algorithm analysis. Basic algorithm design strategies. Introduction to complexity theory. Prerequisites: 103, 104. Math. 173 recommended.

Credits: 3.00

### **CS 228 - Human-Computer Interaction**

The design, implementation and evaluation of user interfaces for computers and other complex, electronic equipment. Includes a significant project.

Credits: 3.00

### **CS 231 - Bioinformatics**

Introduction to current topics in bioinformatics. Applications may include sequence alignment, dynamic programming, hidden Markov models, phylogenetics trees, microarray data analysis, genomics, and proteomics. Prerequisites: STAT 151, CS 26, and MMG 102 desirable. Crosslisting MMG 231.

Credits: 3.00

### **CS 243 - Theory of Computation**

Introduction to theoretical foundations of computer science. Models of computation. Church's thesis and noncomputable problems. Formal languages and automata. Syntax and semantics. Prerequisite: 104. (Same as Math 243).

Credits: 3.00

### **CS 251 - Artificial Intelligence**

Introduction to methods for realizing intelligent behavior in computers. Knowledge representation, planning, and learning. Selected applications such as natural language understanding and vision. Prerequisites: CS 103, CS 104, STAT 153 or equivalent.

Credits: 3.00

### **CS 256 - Neural Computation**

Introduction to artificial neural networks, their computational capabilities and limitations, and the algorithms used to train them. Statistical capacity, convergence theorems, backpropagation, reinforcement learning, generalization. Prerequisites: Math 124 (or 271), Stat 153 or equivalent, computer programming. Cross-listed: STAT 256

Credits: 3.00

### **CS 260 - Parallel Algorithms&Prog Tech**

Taxonomy of parallel computers, basic concepts for parallel computing, effectiveness and scalability, parallel algorithms for variety of problems, message-passing programming paradigm and data-parallel languages. Prerequisite: 103, 104. MATH 173 and MATH 124 recommended.

Credits: 3.00

### **CS 265 - Computer Networks**

Introduction to the theoretical and pragmatic principles of computer networking and client-server computing. Topics include: Local Area Networks; the Internet; ATM technology; TCP programming. Prerequisite: CS 101, 104, STAT 153 or equivalent.

Credits: 3.00

**CS 266 - Network Security&Cryptography**

Security and secrecy in a networked environment. Cryptography: public and private key. Authentication: trusted agents, tickets. Electronic mail and digital signatures. Privacy and national security. Prerequisites: 104, Math. 124 or 271.  
Credits: 3.00

**CS 274 - Computer Graphics**

Graphical representation of two- and three-dimensional objects on color raster displays. Line generation, region filling, geometric transformations, hidden line and surface removal, rendering techniques. Prerequisite: 104, Math. 121, Math. 124 or 271.  
Credits: 3.00

**CS 283 - Undergraduate Honors Thesis**

See description of Honors Thesis Program in the College of EM section of this catalog.  
Credits: 3.00

**CS 284 - Undergraduate Honors Thesis**

See description of Honors Thesis Program in the College of EM section of this catalog.  
Credits: 3.00

**CS 292 - Senior Seminar**

Oral presentations that pertain to the ethical practice of computer science in government, industry, and academia. Topics may include computer security, copyright, and patent law. Prerequisite: Senior standing in Computer Science.  
Credits: 1.00

**CS 294 - Independent Readings&Research**

Independent readings and investigation under the direction of faculty member. Prerequisite: Department permission.  
Credits: 3.00

**CS 295 - Special Topic:Computer Science**

Subject will vary from year to year. May be repeated for credit.  
Credits: 6.00

**CS 296 - Special Topics:Computer Sci**

Credits: 3.00

**CS 303 - Adv Top:Prog Environ&Language**

Object-oriented, functional, or procedural programming languages, language design, parsing, translation, compilation, interpretation, programming and runtime environments. May be repeated for credit with instructor permission. Prerequisites:

103, 202.

Credits: 3.00

**CS 316 - Adv Topi:Computational Science**

Topics chosen from engineering and scientific applications, visualization, large-scale data analysis. May be repeated for credit with instructor permission.

Prerequisite: Varies by semester. Instructor permission required.

Credits: 3.00

**CS 321 - Adv Top:Computer Architecture**

Topics from computer architecture, network architecture, array and vector processors, memory hierarchies. May be repeated for credit with Instructor permission. Prerequisite: CS 222.

Credits: 3.00

**CS 331 - Adv Tpcs Database&Knwldg Sys**

Topics chosen from database design, knowledge based systems, object-oriented and relational systems, data models, knowledge representation. May be repeated for credit with Instructor permission. Prerequisite: CS 204, CS 224.

Credits: 3.00

**CS 346 - Adv Top:Theory of Computation**

Topics from complexity theory, analysis of algorithms, formal languages, combinatorial and geometric algorithms, and theory of databases, networks, distributed algorithms. May be repeated with Instructor permission. Prerequisite: CS 224, CS 243.

Credits: 3.00

**CS 355 - Statistical Pattern Recongntn**

Analysis of algorithms used for feature selection, density estimation, and pattern classification, including Bayes classifiers, maximum likelihood, nearest neighbors, kernels, discriminants, neural networks, and clustering. Prerequisites: Stat 241 or 251 or instructor permission.

Credits: 3.00

**CS 361 - Adv Topics:Systems Software**

Topics chosen from operating systems, distributed or parallel software systems, real-time systems, experimental systems, software engineering. May be repeated for credit with Instructor permission. Prerequisite: CS 201, CS 222.

Credits: 3.00

**CS 381 - Seminar**

Presentations by students, faculty, and guest speakers on advanced topics in Computer Science. May be repeated up to three times for credit.

Credits: 1.00

**CS 391 - Master's Thesis Research**

Credits: 4.00

**CS 392 - Master's Project**

Prerequisite: Department permission.

Credits: 3.00

**CS 394 - Independent Study**

Independent readings and investigation under the direction of a faculty member.

Prerequisite: Instructor permission.

Credits: 4.00

**CS 395 - Special Topics**

Subject will vary from year to year. May be repeated for credit. Prerequisite:

Instructor permission.

Credits: 6.00

**CS 491 - Doctoral Dissertation Research**

Credits: 6.00



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## Courses in Counseling (EDCO)

### **EDCO 220 - Developmental Persp in Counsel**

Survey of major and emerging theories of human development and application of theoretical concepts to self and others from a counseling perspective.

Prerequisite: Graduate standing; others by Instructor permission.

Credits: 3.00

### **EDCO 291 - Special Topics in Counseling**

Special issues in counseling, administration and planning, social work or higher education not appropriate to content of existing courses. Courses reflect the social services orientation of the Department of Integrated Professional Studies.

Credits: 3.00

### **EDCO 310 - Counseling Strats for Teachers**

Counseling strategies appropriate for use in the classroom for class management assessment and utilization of different learning styles, and promotion of positive behavior change. Prerequisite: permission.

Credits: 3.00

### **EDCO 340 - Development Guidance in Schls**

An introduction to the role of the school counselor including developmental guidance program planning and implementation, consultation, crisis intervention, parent education and ethical issues. Prerequisite: Counseling majors or Instructor permission.

Credits: 3.00

### **EDCO 344 - Counseling Children&Adolescent**

Students learn theories and will practice counseling children and adolescents: assessment intervention planning, and play therapy, client-centered, behavioral, cognitive, Adlerian, brief and narrative approaches. Prerequisites: EDCO 374-

Counseling Theory and Practice, EDCO 375-Laboratory Experience in Counseling, Counseling Majors or permission.

Credits: 3.00

**EDCO 350 - Prof Issues in Counseling**

A seminar in which professional, ethical, and legal issues facing counselors in schools and mental health settings are addressed through reading, research, presentation, and discussion. Prerequisite: Graduate standing or Instructor permission.

Credits: 3.00

**EDCO 351 - Using Tests in Counseling**

Exploration of tests and testing process used in counseling and school settings. Includes necessary statistics. Experience in taking, administering, interpreting various tests; study projects for application to any setting. Prerequisites: Graduate standing or permission.

Credits: 3.00

**EDCO 361 - Practice of Mental Hlth CnsIng**

Introduction to issues, needs, models and sociopolitical factors present in community and private-practice mental health counseling, with an emphasis on prevention and wellness. Prerequisite: Graduate standing or Instructor permission.

Credits: 3.00

**EDCO 363 - Counseling Practicum**

Introductory supervised experience in counseling in a field setting. Includes 100 hours working as a counselor with a minimum of 40 hours of direct counseling experience. Prerequisites: Counseling Majors or Permission, EDCO 220, EDCO 350, EDCO 374, EDCO 375 (School and Mental Health tracks) EDCO 361 (Mental Health track)

Credits: 3.00

**EDCO 364 - Internship School Counseling**

Supervised counseling experience in a school counseling setting with direct client work. Prerequisite: Counseling majors or Instructor permission.

Credits: 1.00 to 8.00

**EDCO 374 - Counseling Theory & Practice**

Theoretical and practical approach to understanding the counseling process. Refinement of personal philosophy, theory of counseling, and implementation in practice. Prerequisite: Graduate standing or Instructor permission.

Credits: 3.00

**EDCO 375 - Lab Experience in Counseling**

Students learn and practice basic counseling skills and techniques. Videotaped practice sessions are supervised by course instructor. Prerequisite: EDCO 374.



Counseling majors only.

Credits: 3.00

**EDCO 376 - Chem Dependency: Etiology & Trtmt**

Development (self, family, trauma) and resolution of chemical dependency. Cognitive-behavioral, psychoanalytic, systemic and eclectic orientations. Experiential psychotherapy technique and project required. Prerequisites Graduate standing or permission.

Credits: 3.00

**EDCO 377 - Diversity Issues in Counseling**

Students examine personal, cultural, political, and social factors affecting a diverse range of people with focus on developing appropriate and effective counseling skills. Prerequisite: Instructor permission.

Credits: 3.00

**EDCO 378 - Diagnose & Treat Plan/Child & Adol**

Etiology and diagnosis of mental disorders in children and adolescents according to DSM. Includes intake, evaluation, treatment planning, and clinical documentation skills. Prerequisite: Counseling majors or Instructor permission.

Credits: 3.00

**EDCO 379 - Diagnose & Treat Plan w/Adults**

Etiology and diagnosis of mental disorders in adults according to DMS. Includes intake, evaluation, treatment planning, and clinical documentation skills. Prerequisite: Counseling majors or Instructor permission.

Credits: 3.00

**EDCO 381 - Counsel/Career & Lifestyle Dev**

An exploration of the theories, assessment instruments, counseling techniques, and issues most relevant in counseling for career and lifestyle development. Prerequisite: EDCO 374, EDCO 375; Graduate standing or Instructor permission.

Credits: 3.00

**EDCO 384 - Intern: Mental Hlth Counseling**

Supervised counseling experience in a mental health counseling setting with direct client work. Prerequisite: Counseling majors or Instructor permission.

Credits: 3.00

**EDCO 387 - Therapeutic Psychopharmacology**

Introduction to neuroanatomy, neurophysiology, and pharmacology as they pertain to mental health counseling. Course also covers commonly prescribed medications, ethical issues and the referral process. Prerequisite: EDCO 360 or program permission.

Credits: 3.00

**EDCO 388 - Family Counseling: Systems**

Theory and process of counseling with families, including family theory and current family therapy orientations and intervention skills. Includes practice of counseling interventions. Prerequisites: 220, 374, permission.

Credits: 3.00

**EDCO 389 - Family Counseling: Interventns**

Supervised practice in family counseling. Prerequisites: 388, permission.

Credits: 3.00

**EDCO 390 - Advanced Counseling Seminar**

Analysis and practice of advanced counseling skills with focus on new developments. Emphasis on integration of theory and technique into a consistent counseling model. Prerequisites: EDCO 374, EDCO 375, and Instructor permission.

Credits: 3.00

**EDCO 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1.00 to 18.00

**EDCO 392 - Group Dynamics: Theory & Exp**

Encounter group experiences for prospective counselors providing increased awareness of self and models relating to others. Theory, practice of group dynamics. Prerequisites: Graduate standing and permission.

Credits: 3.00

**EDCO 393 - Adv Group Counseling**

Group leadership skills are developed, practiced, and refined through in-class experiences that focus on feedback exchange, group techniques, ethical issues, and group theory. Prerequisites: 220, 374, 375, 392 and permission.

Credits: 3.00

**EDCO 394 - Special Topics in Counseling**

Special issues in counseling, administration and planning, social work, higher education not appropriate to content of existing courses. Prerequisite: Instructor permission. Variable credit.

Credits: 3.00

**EDCO 397 - Independent Study**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 3.00

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## Courses in Early Childhood Pre K-3 (EDEC)

### **EDEC 001 - Intro to Early Education**

Introduction to a social-constructivist approach to early childhood curriculum development and strategies for observing and documenting young children's development and learning. Offered Spring only.

Credits: 4.00

### **EDEC 063 - Child Development**

The biological, psychological, and social growth and development of children and their relationships with family, peers, and institutions.

Credits: 3.00

### **EDEC 100 - Inquiry & Pedagog in Early Edu**

Strategies for the observation, documentation, and development of curriculum in early education from a social-constructivist perspective through seminar participation and an internship experience in an early childhood setting. Offered Fall only. Pre/co-requisite: EDEC 001.

Credits: 10.00

### **EDEC 187 - Field Practicum**

Full semester student teaching internship in a primary (K-3) setting. Prerequisite: EDEC 189; Instructor permission.

Credits: 15.00

### **EDEC 189 - Early Childhood Practices**

Supervised planning and conducting the Early Childhood Laboratory Center. Integrated Readings and Research, Early Childhood Seminar, and Curriculum Workshop. Prerequisite: Permission. Variable credit.

Credits: 12.00

**EDEC 195 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Enrollment may be more than once, accumulation up to 12 hours.

Prerequisite: Varies with course.

Credits: 6.00

**EDEC 200 - Contemporary Issues**

Credits: 3.00

**EDEC 291 - Special Problems**

Reading, discussion, and special field and/or laboratory investigations.

Prerequisite: Department permission. Students may enroll more than once up to 12 hours.

Credits: 6.00

**EDEC 295 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Enrollment may be more than once. Prerequisite: Department permission.

Credits: 5.00

**EDEC 296 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and community representative, credit arranged up to 15 hours. Prerequisite: Department permission.

Credits: 6.00

**EDEC 397 - Problems in Education**

Credits: 1.00 to 6.00

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## Courses in Early Childhood Special Educ (ECSP)

### **ECSP 187 - Student Teaching Practicum**

Full semester student teaching internship in a setting or combination of settings that includes infants, toddlers, and/or preschoolers with disabilities. Integrated readings, research activity, and weekly seminar. Prerequisites: ECSP 210, ECSP 211.

Credits: 12.00

### **ECSP 200 - Contemporary Issues**

Credits: 3.00

### **ECSP 202 - Infnt,Tdlr,Preschl w/ Disabil**

Characteristics and educational interventions with young children, including typical development and disabilities, addressing needs of young children through curriculum and instructional practices, technology and therapy. Pre/co-requisites: EDSP

Credits: 3.00

### **ECSP 210 - Meet Curr Needs Chil w/ Disabil**

Curricular areas essential to the development of young children with disabilities, development and adaptation of curricula integrated with assessment in early childhood including children with mild, moderate and severe disabilities. Pre/co-requisites: ECSP 202

Credits: 4.00

### **ECSP 211 - Assmt Intvntn Erly Chld Sp Ed**

Screening and assessment essential to identification of and planning for young children with disabilities. Planning for, selection of tools and procedures, and interpreting results from screening and assessment, including young children with mild, moderate and severe disabilities. Pre/co-requisites: ECSP 202

Credits: 4.00

**ECSP 295 - Lab Experience in Education**

Undergraduate only.

Credits: 3.00

**ECSP 310 - Curriculum & Tech Special Ed**

See EDSP 310,311.

Credits: 3.00

**ECSP 311 - Curriculum & Tech Special Ed**

See EDSP 310,311.

Credits: 3.00

**ECSP 382 - Teaching Internship**

Undergraduate only.

Credits: 3.00 to 8.00

**ECSP 386 - Intern:Mgmt Lrng Env for Hdcpd**

See EDSP 386.

Credits: 12.00

**ECSP 391 - Master's Thesis Research**

Credits: 1.00 to 12.00

**ECSP 397 - Problems in Education**

Credits: 1.00 to 6.00



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### Courses in Economics (EC)

**EC 011 - Principles of Macroeconomics**

Introduction to economic concepts, institutions, and analysis, particularly as related to the economy as a whole.

Credits: 3.00

**EC 012 - Principles of Microeconomics**

Study of individual economic units with particular emphasis on market interactions among firms and households. Prerequisite: EC 011.

Credits: 3.00

**EC 020 - Economic Problems**

Exploration of a current economic issue. Topics vary and may include international trade, debts and deficits, environment, ethnicity, race and gender, and employment and work.

Credits: 3.00

**EC 060 - Capitalism & Human Welfare**

Investigates theories of growth of the capitalist economy and the historical process of the ascendance, domination, and recent relative decline of the U.S. economy.

Credits: 3.00

**EC 095 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**EC 096 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**EC 110 - American Economic History**

Survey of the economic history of the U.S. from colonial origins through early 20th century, emphasizing economic and institutional changes and events promoting economic growth and development. 11, 12 or instructor permission. Prerequisite: 11, 12 or instructor permission.

Credits: 3.00

**EC 120 - Money and Banking**

Commercial and central banking with special attention given to the Federal Reserve system, monetary theory, and policy. Prerequisites: EC 011, EC 012 or Instructor permission.

Credits: 3.00

**EC 130 - Public Policy**

Revenues and expenditures of federal, state, and local governments and intergovernmental relationships; the effects of expenditures and taxation upon individuals, business institutions, and the national economy. Prerequisite: EC 011, EC 012 or Instructor permission.

Credits: 3.00

**EC 133 - Economics Environmental Policy**

Investigation of the relationship of markets and government regulation to environmental quality. Alternative public policies to improve efficiency and equity will be evaluated. Prerequisites: EC 011, EC 012 or Instructor permission.

Credits: 3.00

**EC 135 - Law and Economics**

Economic analysis of the law, including property, contracts, torts and criminal law. Covers accident and malpractice compensation, product liability, breach of contract, deterrence of crime. Prerequisite: EC 012.

Credits: 3.00

**EC 140 - Economic Development**

Theories of economic growth applied to developing countries of the contemporary world including the political and social determinants of economic progress. Prerequisite: 11, 12 or instructor permission.

Credits: 3.00

**EC 143 - International Econ I: Trade**

Trade Theory, policy, and history of international trade patterns, terms of trade, protectionism, competitiveness, structural adjustment, and international aspects of microeconomics. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.00

**EC 146 - International Econ II: Finance**

Finance Theory, policy, and history of foreign-exchange markets, balance of



payments, world monetary arrangements, and international aspects of macroeconomics and capital markets. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.00

**EC 150 - Labor Economics**

The economics of work, including wage determination, unemployment, productivity, discrimination, unions, and policy issues. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.00

**EC 153 - African Amer in the US Economy**

An examination of historical and contemporary inequality between whites and blacks, focusing especially on labor, housing, and credit markets. Pre/co-requisites: EC 11 and EC 12.

Credits: 3.00

**EC 156 - Economics of Gender**

Examines how gender differences produce different economic outcomes for women and men in work, leisure, earnings, poverty. Explores effectiveness of policies to overcome gender gaps. Prerequisite: 11, 12. Cross-listings: WST 185.

Credits: 3.00

**EC 160 - Industrial Organization**

The structure, conduct, and performance of U.S. industry and appraisal of its economic efficiency and social impact, including governmental policies.

Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.00

**EC 170 - Economic Methods**

Introduces statistical and mathematical methods for understanding economic literature including probability distributions, data sources, statistical concepts, and simple regression, taught using economic examples and applications.

Prerequisite: Math 19. Credit not given for both 170 and any of following STAT courses: 111, 140, 141, 143.

Credits: 3.00

**EC 171 - Macroeconomic Theory**

Keynesian and other theories of the macroeconomy. Government policies in relation to the problems of employment, price stability, and growth. Prerequisite: Math. 19, 11, 12 or instructor permission.

Credits: 3.00

**EC 172 - Microeconomic Theory**

Analysis of consumer demand, supply, market price under competitive conditions and monopolistic influences, and the theory of income distribution. Prerequisite:

Math 19, 11, 12 or instructor permission.

Credits: 3.00

**EC 194 - ISSP Thesis**

Design, research, and writing of a thesis on an economic topic for students in the Integrated Social Sciences Program. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.00

**EC 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.00

**EC 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.00

**EC 200 - Econometrics & Applications**

A combination of economic theory, mathematics, and statistics for testing economic hypothesis and developing economic models. Conceptual development and applications. Prerequisite: 170 and either 171 or 172.

Credits: 3.00

**EC 210 - Sem A:Econ Hst, Systems&Ideas**

Economic History, Systems, and Ideas Topics on the evolution of economic systems and ideas. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 220 - Sem B:Macroeconomics&Finance**

Macroeconomics and Finance Topics such as national economic policies, income, wealth and welfare, financial markets and the macroeconomy, central banking, and other issues concerning macroeconomics and money. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 230 - Sem C:Microeconomics & Appl**

Microeconomics and its Applications Topics from microeconomics and fields applying it, such as game theory, health economics, environmental economics, the Vermont economy, and urban and regional economics. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 240 - Sem D:Intern'l & Dev Economics**

International and Development Economics Topics such as the economies of

countries or regions, international trade agreements, international debts, deficits and structural adjustment, and aspects of development economics. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 250 - Sem E:Labor, Race & Gender**

Labor, Race, and Gender Topics such as labor-management relations, aspects of contemporary labor markets, discrimination, economics of education, and other aspects of the economics of gender and race. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 260 - Sem F:Firms, Inst, & Growth**

Firms, Institutions, and Growth Topics such as antitrust and regulation, decision making and the firm, technological change and industrial policies, and the economics of growth. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 291 - Macro and Micro Applications**

Combination of real-world work experience with a related independent study project or readings and research. Pre/corequisites: EC 170 and either EC 171,172, or both.

Credits: 3.00

**EC 292 - Macro and Micro Applications**

Combination of real-world work experience with a related independent study project or readings and research. Pre/corequisites: EC 170 and either EC 171,172, or both.

Credits: 3.00

**EC 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 297 - Readings & Research**

Independent study with permission of supervising professor prior to registration. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

**EC 298 - Readings & Research**

Independent study with permission of supervising professor prior to registration. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.00

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## Courses in Education (EDSS)

### **EDSS 001 - Schooling, Learning & Society**

Introduction to issues and problems in American education: schools and learning, professional careers, individuals in systems, characteristics of learners. Required readings and papers.

Credits: 3.00

### **EDSS 010 - ACCESS Education**

Create a safe community to discuss disability-related issues. Introduce students to organizational systems, goal setting, learning styles, self-advocacy, disabilities, and study skills.

Credits: 1.00

### **EDSS 011 - Race and Culture**

Introduction to issues of diversity, multiculturalism and cultural pluralism in our different communities and in our country as a whole.

Credits: 1.00

### **EDSS 012 - Race&Culture Contemp Issues**

Gives an expanded introduction to US social justice issues. Forms of discrimination that shape US culture explored and skills in self-reflection and critical analysis developed.

Credits: 1.00

### **EDSS 055 - Special Topics**

Credits: 6.00

### **EDSS 195 - Intermediate Special Topics**

Topics vary. See Schedule of Courses for specific titles.

Credits: 6.00

**EDSS 196 - Intermediate Special Topics**

Topics vary. See Schedule of Courses for specific titles.

Credits: 6.00

**EDSS 197 - Readings & Research**

Credits: 4.00

**EDSS 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 6.00

**EDSS 238 - Teaching W/Global Perspective**

Approaches to teaching global and multicultural issues: justice and human rights, peace, and the environment. Development of curriculum materials. Links between local and global concerns. Prerequisite: Twelve hours of education and related areas.

Credits: 3.00

**EDSS 239 - S.L.I.P. Seminar**

Professional education course designed to facilitate student's integration of academic, social, personal, and career objectives through seminar or project syllabus method of support for internship experience in the community.

Prerequisite: Instructor's permission, junior standing. UG only.

Credits: 1.00 to 12.00

**EDSS 245 - Microcomp Appl in Education**

For elementary, secondary educators with experience in simple programming. Design of instructional procedures, integrating computers into school curriculum. Use of computer software to teach basic skills, reasoning, thinking skills.

Prerequisite: CS 003 or equivalent; Instructor permission.

Credits: 3.00

**EDSS 248 - Educational Media**

Modern instructional aids, theory and practice, educational media related to psychology of teaching and learning. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.00

**EDSS 261 - Current Dir:Curric&Instruction**

Current trends, issues, literature, programs, and organizational activities in fields of curriculum and instruction emphasizing areas of individual concern. Focus on elementary and secondary school levels. Prerequisite: Twelve credits in education or equivalent.

Credits: 3.00

**EDSS 295 - Laboratory Exp in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 3.00

**EDSS 309 - Interdisciplinary Seminar**

Introduction to interdisciplinary study; the field of policy analysis and social change. Core academic experience for Interdisciplinary Majors. Prerequisite: Interdisciplinary majors; others by Instructor permission.

Credits: 3.00

**EDSS 313 - Stat Meth Ed & Social Services**

Basic concepts of descriptive and inferential statistics. Topics: frequency distributions; measures of central tendency, dispersion; correlation, hypothesis testing. Application of concepts to educational situations.

Credits: 3.00

**EDSS 319 - Internship**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Instructor permission.

Credits: 3.00

**EDSS 321 - School Improvement:Thry & Prac**

Analysis of research and practices pertinent to improvement of American schools. Student assignments include synthesis papers and site-specific research projects derived from course studies. Prerequisite: Twelve hours of Graduate study in education.

Credits: 4.00 to 6.00

**EDSS 333 - Curr Concepts, Planning & Dev**

Overview of conceptions of curriculum for elementary and secondary education; examination of contemporary curriculum trends, issues; processes for initiating, planning, developing curriculum activities and programs. Prerequisite: Twelve hours of education or Instructor permission.

Credits: 3.00

**EDSS 336 - Professional Writing**

Problems in writing faced by professionals in educational and human service settings. Students write reports, critiques, reviews; analyze examples of published work; receive detailed critiques of their work.

Credits: 3.00

**EDSS 343 - The Study of Teaching**

Study of the art and science with emphasis on students' own teaching. Current research on teaching and self-study are major foci. Prerequisite: Twelve hours of education; teaching experience.

Credits: 3.00

**EDSS 363 - Sem: Anyl of Curr & Instruction**

A case study analysis of the design, implementation, and evaluation of selected curricular and instructional improvements. Prerequisite: Ed.D. students have priority.

Credits: 3.00

**EDSS 380 - Professional Problems in Ed**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.00

**EDSS 387 - Collaborative Consultation**

Adult development and group dynamics theory provide the knowledge base for collaborating with parents and teachers to meet the diverse needs of students with disabilities. Cross-listed with: EDSP 387.

Credits: 3.00

**EDSS 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1.00 to 6.00

**EDSS 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 3.00





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## Courses in Electrical Engineering (EE)

### EE 001 - First-year Design Experience

Introduction to the engineering profession and design. Hands-on experiences that emphasize interdisciplinary teamwork, technical communications, and project design methodologies. Cross-listings: ME 1.

Credits: 3.00

### EE 003 - Linear Circuit Analysis I

Circuit elements, laws, and analysis. Network principles and theorems. Energy-storage elements. Magnetically coupled circuits. Transient analysis and time constants. Prerequisite: MATH 022.

Credits: 3.00

### EE 004 - Linear Circuit Analysis II

Sinusoids and phasors. Sinusoidal steady-state response and power. Complex frequency and network functions. Resonance. Laplace transform techniques. Fourier series and Fourier transforms. Prerequisite: EE 003. Co-requisite: MATH 271.

Credits: 3.00

### EE 081 - Linear Circuits Laboratory I

Electrical instruments; oscilloscope measurements; resistive, capacitive, and inductive components; applications of operational amplifiers; digital-to-analog converters; transient response of RL and RC circuits. Co-requisite: EE 003.

Credits: 2.00

### EE 082 - Linear Circuits Laboratory II

Transients in RLC circuits; steady state sinusoidal response in RLC circuits; real and reactive power in RLC circuits; operational amplifier active filters. Prerequisite: EE 081. Co-requisite: EE 004.

Credits: 2.00

**EE 095 - Special Topics**

Prerequisite: Departmental permission.

Credits: 3.00

**EE 100 - Electrical Engr Concepts**

Introduction to analog and digital electrical measurements and circuits; introduction to microprocessors. No credit for EE majors. Prerequisite: Physics 42 with 22 or 125.

Credits: 4.00

**EE 101 - Digital Control w/Embedded Sys**

Applications of single-chip microcomputers as embedded systems for data acquisition/real time control. Assembly language; parallel and serial ports; timers; counters; A/D and D/A. Laboratory. Prerequisite: EE 100.

Credits: 4.00

**EE 113 - Electromech Energy Gen & Dist**

Principles basic to electromechanical energy conversion devices and systems. Energy interchange among magnetic and mechanical circuit elements. Continuous energy conversion in ideal and practical rotating machines. Prerequisite: 141. Alternate years.

Credits: 4.00

**EE 120 - Electronics I**

Theory of operation of diodes and MOS transistors. DC and transient analysis using diodes and transistors. NMOS and CMOS logic circuits and memory cells. Circuit simulation software. Prerequisite: EE 004.

Credits: 4.00

**EE 121 - Electronics II**

Bipolar transistor circuits. DC and high frequency amplifier design using MOS and bipolar transistors. Feedback, oscillators, and stability criteria. Operational amplifiers and switched capacitor filters. Prerequisite: EE 120.

Credits: 4.00

**EE 131 - Fundamentals of Digital Design**

Combinational logic simplification and design, MSI and PLD components, synchronous and asynchronous sequential design, algorithmic state machines, registers, counters, memory units, introduction to hardware design languages.

Prerequisite: Sophomore standing.

Credits: 3.00

**EE 134 - Fund of Microcomp Based Syst**

In-depth study and applications of a modern microprocessor in embedded digital

systems for real-time control and data acquisition. Assembly language and the design of interfaces. Prerequisites: 3 or 100, and Computer Science 16 or 21; EE 131 and Computer Science 101 desirable.

Credits: 4.00

### **EE 141 - Electromagnetic Field Theory I**

Basic laws and elementary applications of electromagnetic fields; vector analysis, steady-state electric and magnetic fields, boundary value problems, transmission lines. No credit may be received for both EE 140 (offered in prior years) and the current EE 141. Prerequisites: EE 4, Math. 271, Physics 42.

Credits: 4.00

### **EE 142 - Electromagnetic Field Theory II**

Basic laws and elementary applications of electromagnetic fields, waves and radiation; Maxwell's equations, Poynting's theorem, plane wave propagation, wave guides, antennas. Prerequisite: EE 141.

Credits: 3.00

### **EE 163 - Solid State Phys Electronics I**

Physical principles required to understand the operation of common semiconductor devices. Physical models of p-n junctions, Schottky barriers, and MOS field-effect transistors. Prerequisite: PHYS 042 with PHYS 022; MATH 271.

Credits: 4.00

### **EE 164 - Solid St Phys Electronics II**

Theory of operation of bipolar junction transistors. Heterojunction transistors. Compound and alloy semiconductor materials and devices. Dielectric and magnetic materials and devices. Prerequisite: EE 163.

Credits: 3.00

### **EE 171 - Signals & Systems**

Discrete and continuous-time signals and systems. Input/output descriptions and analysis. Convolution, Fourier analysis and Laplace transforms, Sampling and z-transforms. Application to electrical engineering design problems. Prerequisite: EE 004.

Credits: 4.00

### **EE 174 - Intro to Communication Systems**

Signal analysis. Wireless communication including modulation and link budget analysis. Fundamentals of digital communications including PCM, channel coding, pulse shaping and multiplexing. Modern systems survey. Prerequisite: EE 171.

Credits: 4.00

### **EE 183 - Electronics Laboratory I**

Characteristics and applications of diodes and MOSFETs; CMOS inverters and logic characterization; applications of operational amplifiers. Co-requisite: EE 120.

Credits: 2.00

**EE 184 - Electronics Laboratory II**

Characteristics and applications of bipolar junction transistors; medium frequency and differential amplifiers; operational amplifier output stages; analog and digital filters. Prerequisite: EE 183. Co-requisite: EE 121.

Credits: 3.00

**EE 185 - Systems and Applications Lab**

AC and DC machines; power transformers; electromagnetic waves on transmission lines; digital logic design; design project. Pre/co-requisites: Senior standing in Electrical Engineering.

Credits: 2.00

**EE 186 - Telecommunications Lab**

Telecommunication system measurement techniques. Spectral analysis, distortion, analog and digital modulation, eye patterns, signal constellations and bit error rate. Team project. Prerequisite: Senior standing in Electrical Engineering. Co-requisite: EE 174.

Credits: 2.00

**EE 187 - Professional Design Issues**

Project management, professional ethics, social/ economic impact, and contemporary issues that arise in engineering practice. Interdisciplinary project development including project selection, design requirements, prototyping and communications. Pre/co-requisite: Senior standing.

Credits: 4.00

**EE 188 - Major Design Experience**

Cumulative, team-based interdisciplinary design experience. Subsystem design, implementation and test. System integration and test. Project demonstration, report, and presentation. Pre/co-requisite: EE 187.

Credits: 3.00

**EE 193 - College Honors**

Credits: 3.00

**EE 194 - College Honors**

Credits: 3.00

**EE 195 - Special Topics**

Prerequisite: Departmental permission.

Credits: 4.00

**EE 201 - Linear System Theory**

Basic concepts in system theory; linear algebra; state space representation;

stability; controllability and observability. Applications of these concepts.

Prerequisites: EE 171 or Graduate standing.

Credits: 3.00

### **EE 209 - Transient Phenomena**

Study of complex variable basis of Laplace and Fourier Transforms; applications to transient behavior of lumped and distributed parameter systems, root locus.

Nyquist criterion and two-dimensional field problems. Prerequisite: 4. Not offered 2001-02.

Credits: 3.00

### **EE 210 - Introduction Control Systems**

Analysis and design of continuous and discrete-time control systems; stability, signal flow, performance criteria, classical and state variable methods, simulation design tools, computer-based realizations. Prerequisite: 171.

Credits: 3.00

### **EE 212 - Computer Vision**

Introduction to computer vision systems for interactive and industrial applications using both hard/software computational approaches. Pre/co-requisites: MATH 124 or MATH 271 and CS 026, or Instructor permission. Cross-listing: CS 212.

Credits: 3.00

### **EE 214 - Ubiquitous Cmpgtg & Interaction**

Introduction to human computer interaction in the area of sensory intelligence with concentration to biofeedback, biometric analysis, human factor, wearable computing, mixed reality, and graphical user interfaces. Pre/co-requisites: CS 026; Senior/Graduate standing in Engineering, Math, or Computer Science; Instructor permission.

Credits: 3.00

### **EE 216 - Sensory based robotics**

Introduction to broad aspects on modern robotics, including industrial robotic hand, humanoid robot, personal robot, mobile robot, and entertainment robot. Pre/co-requisites: Senior/Graduate standing in Engineering, Mathematics, or Computer Science; Instructor permission.

Credits: 3.00

### **EE 221 - Prin VLSI Digital Circuit Des**

Design of VLSI circuits using a modular approach with industrial grade software: schematic capture; circuit design languages (HDL); full-custom layouts; mixed signals; synthesis. Laboratory. Pre/corequisites: EE 131, 163,121.

Credits: 3.00

### **EE 222 - Prin VLSI Analog Cir Design**

The design, layout, and simulation of VLSI analog circuits. Emphasis on small

signal models and circuits used in operational amplifiers. Prerequisites: EE 163, EE 121, Instructor permission.

Credits: 3.00

### **EE 224 - Principles VLSI System Design**

Survey of VLSI design. Architecture and partitioning of functions. Design for testability. Simulation including timing. Synthesis. Design verification; manufacturing interface. Required team project and report. Prerequisites: EE 221 or Instructor permission.

Credits: 3.00

### **EE 227 - Biomed Measmnts Instrum & Sys**

Biomedical and clinical engineering in research, industry, and health care institutions. Measurement techniques and instrumentation. Integrated biomedical monitoring, diagnostic, and therapeutic systems. Co-requisites: EE 121, ANPS 020; Instructor permission. Alternate years.

Credits: 3.00

### **EE 228 - Sensors**

Sensor design, interrogation, and implementation. A wide variety of electrical, electronic, optical, mechanic, and cross-disciplinary devices. System designs, measurement techniques, and methodologies. Prerequisites: Senior standing in Engineering or Physics.

Credits: 3.00

### **EE 231 - Digital Computer Design**

Hardware organization and realization, hard-wired and microprogrammed control units, interrupt and I/O systems. Hardware design language introduced and used for computer design. Prerequisites: EE 131, either EE 134 or CS 101.

Credits: 3.00

### **EE 232 - Digital Computer Design II**

Memory designs, error control, high-speed addition, multiplication, and division, floating-point arithmetic, cpu enhancements, testing and design for testability.

Prerequisites: EE 231.

Credits: 3.00

### **EE 241 - Electromagnetic Theory I**

Maxwell-Lorentz theory emphasizing uniqueness and conservation laws. Potential theory with applications to boundary value problems, Green's function techniques, multipole expansions, and numerical methods. Prerequisites: 141; Math. 272 recommended.

Credits: 3.00

### **EE 242 - Electromagnetic Theory II**

Macroscopic Maxwell theory, boundary conditions and dispersion relations for

spatio-temporal fields. Electromagnetic wave propagation, reflection and transmission, guided waves, radiation, scattering and diffraction phenomena.

Prerequisites: EE 241 or Instructor permission.

Credits: 3.00

### **EE 245 - Lasers&Electro-Optical Devices**

A theoretical description of light-matter interactions in photon emitting resonant cavities. A practical understanding of laser design and operation. Prerequisite: 142.

Credits: 3.00

### **EE 246 - Engineering Optics**

Applications of optics to the solution of engineering problems. Optical signal processing, fiber optic sensors, integrated optics. Prerequisites: EE 245 or Instructor permission.

Credits: 3.00

### **EE 250 - Test Engineering**

Parametric, structural, functional, characterization and stress testing of components and subsystems. Test methods, strategies, planning, and economics. Test equipment hardware and software. Prerequisites: 121, 131. Alternate years.

Credits: 3.00

### **EE 251 - Digital Syst Testing & Design**

Circuit failures, fault models, testing and test pattern generation, logic and fault simulation, design for testability, scan design, test interfaces, design for built-in self-test. Prerequisite: 131. Alternate years.

Credits: 3.00

### **EE 261 - Solid State Mat & Devices I**

Energy band theory, effective mass, band structure and electronic properties of semiconductors. Transport of electrons and holes in bulk materials and across interfaces. Homojunctions, heterojunctions, and Schottky barriers. Prerequisite: EE 163.

Credits: 3.00

### **EE 262 - Solid State Mats & Devices II**

Multijunction and interface devices. Heterostructure and optical devices. Dielectric and optical properties solids. High-frequency and high-speed devices.

Prerequisite: EE 261.

Credits: 3.00

### **EE 266 - Science & Tech Integrated Cir**

Science and technology of integrated circuit fabrication. Interaction of processing with material properties, electrical performance, economy, and manufacturability.

Prerequisites: EE 163 or EE 261; concurrent registration in EE 164 or EE 262.

Credits: 3.00

**EE 270 - Prob Thry & Stochastic Process**

(Same as Statistics 270.) Probability theory, random variables, and stochastic processes. Response of linear systems to random inputs. Applications in electrical engineering. Prerequisite: 171 or equivalent.

Credits: 3.00

**EE 273 - Digital Communications**

Digital modulation/demodulation methods and BER performance; source entropy and channel capacity; optimal detection; convolutional codes and decoding algorithms. Pre/corequisites: EE 174, and EE 270 or STAT 143 or STAT 151.

Credits: 3.00

**EE 274 - Intro Wavelets & Filter Banks**

Continuous and discrete-time signal processing. Continuous wavelet transform. Series expansion of continuous and discrete-time signals. Perfect reconstruction, orthogonal and biorthogonal filter banks. Wavelets from filters. Prerequisites: 171, or instructor's permission. Cross-listing: Math 278.

Credits: 3.00

**EE 275 - Digital Signal Processing**

Sampling and reconstruction of signals. DFT, FFT and the z-transform. FIR and IIR filter design. Speech coding. Accompanying lab: 289. Pre/co-requisites: 171, permission.

Credits: 4.00

**EE 276 - Image Processing & Coding**

Image enhancement techniques by point and spatial operations. Data compression techniques to include scalar quantization, entropy coding, transform and sub-band coding. Labs on PC hardware; PC and Unix-based software.

Prerequisites: 275; 270 recommended.

Credits: 4.00

**EE 278 - Wireless Communication Systems**

Modern wireless systems, including cellular design, propagation modeling, multiple access and equalization techniques. Pre/co-requisites: Pre: EE 174 and (EE 270 or STAT 143 or STAT 151 or STAT 153)

Credits: 3.00

**EE 281 - Materials Science Seminar**

Presentation and discussion of advanced electrical engineering problems and current developments. Prerequisite: Senior or Graduate Engineering enrollment.

Credits: 1.00

**EE 282 - Seminar**



Credits: 1.00

**EE 285 - Engr Design Anyl & Synthesis**

Advanced engineering problem solving, analytical techniques and simulations involving control systems, digital electronics, computer hardware and software; technical writing and documentation emphasized. Prerequisites: Graduate standing in EE or department permission.

Credits: 3.00

**EE 289 - Digital Signal Processing Lab**

Design and microprocessor implementation of real-time digital signal processing systems. PC-based evaluation module and development tools. Experiments include sampling, digital filtering, and the FFT. Pre/co-requisite: EE 171.

Credits: 3.00

**EE 295 - Special Topics**

Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines, or systems. Prerequisite: 4.

Credits: 4.00

**EE 310 - Digital Control Systems**

Digital control system analysis and design using transform, algebraic, and state space methods. Sampled data systems, stability, quantization effects, sample rate selection, computer-based realization. Prerequisite: EE 210 or Instructor permission.

Credits: 3.00

**EE 312 - Intro Optimum Control Systems**

Optimal control problem formulation and solution; including the calculus of variations, Pontryagin's maximum principle, Hamilton-Jacob theory, dynamic programming, and computational methods. Prerequisite: EE 210.

Credits: 3.00

**EE 314 - Nonlinear System Theory**

Basic nonlinear methods including computational and geometrical techniques for analysis of nonlinear systems. Describing function methods and bifurcation and catastrophe theory. Sensitivity and stability considerations. Prerequisite: EE 201 or MATH 230.

Credits: 3.00

**EE 338 - Semiconductor Dev Model&Simul**

Analysis and application of computer models for semiconductor process and device simulation. Strategies for development of device models for circuit simulation. Prerequisite: EE 262; Instructor permission.

Credits: 3.00

**EE 340 - ST:Electromagnetic Field Thry**

For advanced students in the field of electromagnetism. Topics selected from special interests of staff with lectures and readings from current literature.

Credits: 3.00

**EE 341 - ST:Electromagnetic Field Thry**

For advanced students in the field of electromagnetism. Topics selected from special interests of staff with lectures and readings from current literature.

Credits: 3.00

**EE 352 - Adv Semicond Device Phys & Des**

MOSFET, bipolar, and CMOS device parameters, their characterization, and their relation to process technology. Description and use of computer-aided process and device models. Prerequisite: EE 262. Alternate years. Spring semester.

Credits: 3.00

**EE 354 - MOS Analog Intergrtd Circ Dsgn**

Analysis and design of MOS analog integrated circuits. Each student will design, layout, test, and document an analog integrated circuit using computer-aided-design techniques. Prerequisite: EE 338, EE 339.

Credits: 3.00

**EE 365 - Optical Properties of Solids**

Optical and optoelectronic properties of semiconductors. Applications to photodetectors, solar cells, light emitting diodes and lasers. Prerequisites: 242, 262, Physics 273.

Credits: 3.00

**EE 366 - Solid State & Semicond Thry I**

Energy band theory for electrons and phonons in crystalline solids. Brillouin zones. Conservation laws. Elements of statistical mechanics. Transport properties. Applications to semiconductor electronics. Prerequisite: EE 261, PHYS 273 or CHEM 263.

Credits: 3.00

**EE 373 - Digital Communication**

Source entropy and channel capacity; signal representation; optimal detector for Gaussian channels; digital modulation/demodulation schemes; error probability; block/convolutional codes; Viterbi algorithm; real channels. Prerequisites: 174, 270, 373 for 374.

Credits: 3.00

**EE 378 - St:Stat Comm & Related Fields**

Coding for communication or computer systems, pattern recognition and learning machines, artificial intelligence, etc., selected from special interests of staff with lectures and readings from current literature. Prerequisite: Instructor permission.

Credits: 3.00

**EE 391 - Master's Thesis Research**

Credits: 6.00

**EE 395 - Advanced Special Topics**

Advanced topics of current interest in electrical engineering. Prerequisite:  
Instructor permission.

Credits: 4.00

**EE 491 - Doctoral Dissertation Research**

Credits: 6.00

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## Courses in Elementary Education (EDEL)

### EDEL 010 - Intro to Teaching & Learning

Orientation to professional program. Introduction to research base for meaningful teaching and learning. Analysis of teaching autobiographies by successful teachers. One credit each semester for two consecutive semesters.

Credits: 2.00

### EDEL 011 - Computers in EI Ed Classroom

Students use the University's network and internet, exchange e-mail, construct electronic portfolios, and examine software to help them in their studies and future classrooms.

Credits: 3.00

### EDEL 024 - Learners and Learning Process

Distinctions among dominant theories of learning and development. Learning theories applied to selected issues derived from context of schools. Students work with individual learner in appropriate setting.

Credits: 3.00

### EDEL 055 - Special Topics

Credits: 3.00

### EDEL 056 - Teachers&the Teaching Process

Students examine lives of teachers, demands of the profession, and selected models of teaching. Student observation of teachers in appropriate settings and knowledge of learning and development. Prerequisite: EDEL 010, EDEL 024; concurrent with EDEL 177, EDSP 005.

Credits: 3.00

### EDEL 155 - Lab Experience in Inquiry

Supervised practicum in field sites. Implementation of teaching methods from Inquiry Block. Documentation of classroom work, child study, and development of portfolio. Prerequisite: Admission to Elementary Teacher Education Program; concurrent with EDEL 157, EDEL 158, EDEL 159.

Credits: 3.00

**EDEL 156 - Teaching Math for Meaning**

Methods of teaching mathematics in elementary school. Research base for how children learn mathematics and how math curriculum is organized. Special focus on teaching diverse groupings of learners. Prerequisite: Admission to Elementary Teacher Education Program; concurrent with EDEL 175, EDEL 176, EDEL 178.

Credits: 3.00

**EDEL 157 - Social Ed and Social Studies**

Methods of social education for elementary-aged school children. Promoting children's efficacy by nurturing personal interests. Development of folio of developmentally-sound examples of social studies learning. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with EDEL 155, 158, 159.

Credits: 3.00

**EDEL 158 - Teaching Science for Meaning**

Methods of science education for elementary-aged school children. Translate science content into meaningful science inquiry. Preparation of demonstration teaching lessons. Prerequisites: Admission to the Elementary Teacher Education Program; concurrent with EDEL 155, 157, 159.

Credits: 3.00

**EDEL 159 - Visual & Performing Arts, K-6**

Incorporation of the visual and performing arts in elementary school curriculum. Focus on artistic expression as a way of learning. Emphasis on cross-cultural art, music, drama. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with 155, 157, 158.

Credits: 3.00

**EDEL 175 - Lab Experience in Literacy**

Supervised practicum in a field site. Implementation of teaching methods from Literacy Block. Documentation of classroom work, child study, and development of portfolio. Prerequisite: Admission to Elementary Teacher Education Program; concurrent with EDEL 156, EDEL 176, EDEL 178.

Credits: 3.00

**EDEL 176 - Language Arts&Literacy Skills**

Cognitive research base for the social context of children's learning. Methods of language arts as literate activity. Emphasis on emergence of literacy in the child of special need. Prerequisites: Admission to Elementary Teacher Education

Program; concurrent with EDEL 156, EDEL 175, EDEL 178.

Credits: 3.00

**EDEL 177 - Children's Lit & Literacy**

Learning about the breadth of literature available for use in elementary school. Developing the ability to evaluate and use literature in reading and writing activities. Emphasis on bias-free methods. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with EDEL 56, EDSP 5.

Credits: 3.00

**EDEL 178 - Mtg Indiv Needs:Assmt&Instruct**

Methods of responding to individual differences within a heterogeneous classroom. Sources of student variability, developing settings of least restriction, and appropriate assessment strategies. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with EDEL 156, 175, 176.

Credits: 3.00

**EDEL 181 - Student Teaching**

Credits: 3.00 to 12.00

**EDEL 185 - Student Teaching Internship**

Supervised student teaching internship in field site. Fifteen-week total immersion as a beginning teacher. Responsibilities specified in internship handbook. Documentation of activities for professional portfolio. Concurrent with EDEL 187 and EDEL 188. Prerequisite: Method Blocks in Inquiry and Literacy. Variable credit.

Credits: 12.00

**EDEL 186 - Seminar in Student Teaching**

Credits: 3.00

**EDEL 187 - Plan,Adapt,Deliv Rdg Instruct**

Methods of diagnostic teaching in reading and writing. Identifying components of effective programs and use of research findings to deliver instruction in meaningful contexts. Documentation of personal model of literacy for professional portfolio. Prerequisite: Method Block in Literacy; EDEL 156, EDEL 176, EDEL 177.

Credits: 3.00

**EDEL 188 - Principles of Classroom Mgmt**

Application of basic learning principles to classroom management. Creation of behavior management plans with emphasis on social and academic behavior of diverse groupings of children. Concurrent with EDEL 185 and EDEL 187. Prerequisite: Method Blocks in Inquiry and Literacy.

Credits: 3.00

**EDEL 189 - Portfolio Dev&Reflective Pract**

This course develops candidates' critical reflectivity on their knowledge and expertise of classroom teaching through the construction of a professional portfolio. Prerequisite: Concurrent with EDEL 185 and EDEL 188.

Credits: 1.00

**EDEL 197 - Readings & Research**

Credits: 3.00

**EDEL 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.00

**EDEL 241 - Science for Elem Schools**

Examination of elementary school science programs. Emphasis on methods and materials relating to construction, use of science units for children in grades K-6. Prerequisite: Twelve hours in education and related areas or Instructor permission.

Credits: 3.00

**EDEL 295 - Lab Experience in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 12.00

**EDEL 380 - Professional Problems in Ed**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.00

**EDEL 382 - Teaching Internship**

Supervised teaching experiences on a full-time basis, with related seminars in teaching subject. Prerequisite: Permission of coordinator of Professional Laboratory Experiences.

Credits: 8.00

**EDEL 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1.00 to 18.00

**EDEL 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1.00 to 6.00

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## Courses in Engineering (ENGR)

### **ENGR 001 - Introduction To Engineering**

An introduction to engineering and what engineers do. Design projects, guest lecturers and visits to engineering enterprises. S/U grading.

Credits: 3.00

### **ENGR 002 - Graphical Communication**

Principles of computer-aided drafting/design; production of engineering drawings including: orthographic, auxiliary, section, pictorials and dimensioning, graphics and charts; applications in specific engineering disciplines.

Credits: 2.00

### **ENGR 095 - Special Topics**

Credits: 5.00

### **ENGR 195 - Special Topics**

Credits: 3.00

### **ENGR 295 - Special Topics**

Credits: 6.00

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## Courses in Engineering Management (EMGT)

### EMGT 175 - The Management of Technology

Role of technology in industry, the nature of technological change, strategies, management, research and development, forecasting, product service/project selection, development, management, transition to market, and evaluation.

Prerequisites: Senior standing in Engineering or Business Administration. Cross-listed with: BSAD 175.

Credits: 3.00

### EMGT 185 - Senior Project

Individual management engineering study designed to the particular interest of the student, utilizing and synthesizing the student's engineering management education experience. Prerequisite: Senior standing in EMBA.

Credits: 3.00

### EMGT 195 - Special Topics

Specialized or experimental course offered as resources permit.

Credits: 3.00



## 2005-06 Online Catalogue

### :: Academics

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## Courses in English (ENGS)

### ENGS 001 - Written Expression

A course in writing with some selected readings as examples of style and writing strategies.

Credits: 3.00

### ENGS 004 - Engl for International Stdnts

Review of English grammar, practice in expository writing, vocabulary building, and improvement of speaking and listening skills. Prerequisite: Instructor permission.

Credits: 3.00

### ENGS 005 - First Year Seminar

Students to write in a variety of forms, styles, and genres in response to selected texts of literary or cultural significance. Themes, texts, and writing assignments to vary by section. Prerequisite: First-Year standing in College of Arts and Sciences.

Credits: 3.00

### ENGS 011 - Types of Literature

Introduction to fiction, poetry, and drama - past and present, British and American.

Credits: 3.00

### ENGS 012 - Introduction to Drama

Study of the play as a work of literature and as a dramatic experience. Continental, British, and American drama from all ages.

Credits: 3.00

### ENGS 013 - Introduction to Fiction

Exploration of a variety of fictional forms, including the short story, the novella, and the novel.

Credits: 3.00

**ENGS 014 - Introduction to Poetry**

Examination of the forms of poetry, past and present, British and American. Provides a wide variety of perspectives on the poem.

Credits: 3.00

**ENGS 021 - British Literature**

Survey of major figures in British literature such as Chaucer, Milton, Swift, Wordsworth, and Woolf.

Credits: 3.00

**ENGS 022 - British Literature**

Survey of major figures in British literature such as Chaucer, Milton, Swift, Wordsworth, and Woolf.

Credits: 3.00

**ENGS 023 - American Literature**

Survey of major American writers from the beginning of the 19th century to the present, such as Hawthorne, Melville, Dickinson, Twain, Hemingway, and Faulkner.

Credits: 3.00

**ENGS 024 - American Literature**

Survey of major American writers from the beginning of the 19th century to the present, such as Hawthorne, Melville, Dickinson, Twain, Hemingway, and Faulkner.

Credits: 3.00

**ENGS 025 - World Literature**

Survey in comparative literature dealing with the great writers of the world, to include Virgil, Dante, Goethe, and similar major figures. Students may not take for credit both ENGS 025 and ENGS 027, or both ENGS 026 and ENGS 028.

Credits: 3.00

**ENGS 026 - World Literature**

Survey in comparative literature dealing with the great writers of the world, to include Virgil, Dante, Goethe, and similar major figures. Students may not take for credit both ENGS 025 and ENGS 027, or both ENGS 026 and ENGS 028.

Credits: 3.00

**ENGS 027 - Lit of Western Trad: Int Humn**

Study of primary authors in the Western cultural tradition from Homer to the modern period with particular reference to history, religion, and philosophy. Students may not take for credit both English 25 and 27; or both English 26 and 28. Prerequisites: Concurrent enrollment in Religion 27, 28. Prerequisites:

Concurrent enrollment in Religion 27,  
Credits: 3.00

**ENGS 028 - Lit of Western Trad:Int Humn**

Study of primary authors in the Western cultural tradition from Homer to the modern period with particular reference to history, religion, and philosophy. Students may not take for credit both ENGS 025 and ENGS 027; or both ENGS 026 and ENGS 028. Prerequisite: Concurrent enrollment in REL 027, REL 028, HST 013, HST 014; Integrated Humanities Program.  
Credits: 3.00

**ENGS 040 - Science Fiction & Fantasy Lit**

Representative modern works of fantasy and science fiction, including works by Asimov, Tolkien, and Clarke. I, II.  
Credits: 3.00

**ENGS 041 - Crime Story**

A study of the use of "crime situations" as the central plot device in various types of narrative: novels, short stories, films, and television series.  
Credits: 3.00

**ENGS 042 - Women in Literature**

Survey of women's literary tradition in English. Focuses on the ways women have written, read, written about, and been represented in 19th and 20th century literature. Cross-listed with: WGST 076.  
Credits: 3.00

**ENGS 050 - Expository Writing**

Writing and analysis of expository (nonfiction) essays. Prerequisite: Sophomore standing.  
Credits: 3.00

**ENGS 053 - Writing: Poetry & Fiction**

Introductory course in techniques of writing poetry and short prose fiction. Classes organized around discussion of student work; weekly writing assignments. Prerequisite: Sophomore standing.  
Credits: 3.00

**ENGS 057 - Race&Ethnicity Lit Stds:Intro**

Introductory courses addressing the representation and construction of "race" in literature and/or the contributions of ethnically diverse writers to the American culture. Focus and readings vary by instructor. May be repeated for credit.  
Credits: 3.00

**ENGS 061 - Intro to African Literature**

Readings in African literature, concentrating on major human and political themes

and literary techniques.

Credits: 3.00

**ENGS 065 - Survey of Folklore**

Basic concepts of folklore; development of the discipline; defining the major genres; role of folklore in modern society.

Credits: 3.00

**ENGS 085 - Text&Context:1st Yr Prosp Mjrs**

Introduction to the critical work of close reading and close writing. Readings vary by section. Recommended for First-Year students planning to major in English.

Credits: 3.00

**ENGS 086 - Critical Approaches to Lit**

Several theoretical approaches to literary study applied to specific texts. No prerequisite, but recommended only for students with Sophomore standing or First-Year students with Advanced Placement. Required of all English majors.

Credits: 3.00

**ENGS 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**ENGS 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**ENGS 101 - Structure of English Language**

Descriptive study of modern American English. Pre/co-requisites: 3 hrs in English numbered 5-96; soph standing. Cross-listings: CMSI 164.

Credits: 3.00

**ENGS 102 - Hist of English Language**

Principles of historic linguistics and their application to English. Pre/co-requisites: Three hours in English courses numbered ENGS 005 - ENGS 096 and Sophomore standing.

Credits: 3.00

**ENGS 103 - American English Dialects**

Class will examine dialects of American English and the methodology of dialectology with focus on Vermont speech and the social meaning of dialect variation. Pre/co-requisites: 3 hrs English numbered 5-96; soph standing. Cross-listings: CMSI 162.

Credits: 3.00

**ENGS 104 - Tutoring Writing**

This course, for students who will be tutoring at the Writing Center, explores ways of responding to writers one-on-one. Permission required. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 105 - Exploring Writing Centers**

A continuation of ENGS 104, this course explores theoretical frameworks for writing centers and how they can shape ways tutors respond to writers. Pre/co-requisite: three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 107 - Topics in Comp & Rhetoric**

Topics vary by semester and by professor. Representative topics: U.S. Literacy Politics; Feminist Rhetorics. May repeat for credit with different content. Pre/co-requisites : 3 hours in English courses numbered 5-96 and sophomore standing.  
Credits: 3.00

**ENGS 109 - Topics in Critical Theory**

Topics vary by semester and by professor. Representative topics: Psychoanalytic Criticism; Narrative Theory. May repeat for credit with different content. Pre/co-requisite : three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 110 - Gender & Sex in Lit Studies**

Courses address writing by women and LGBT authors and/or literary representations of gender and society. May be repeated for credit. Pre/co-requisites: 3 hrs English #ed 5-96; soph standing. Cross-listings: WST 110.  
Credits: 3.00

**ENGS 111 - Race & Ethnicity in Lit Studies**

Topics address "race" and/or the contributions of ethnically diverse writers to American culture. Focus and readings vary. May repeat for credit with different content . Pre/co-requisites: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 112 - Topics in Cultural Studies**

Topics focus on theoretical problems and practices of the interdisciplinary study of culture. Representative topic: Comparative identities. May repeat for credit with different content. Pre/co-requisites: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 113 - Topics in Genre**

Topics focus on the theoretical problems of various kinds of writing. Representative topics: Narrative; Gothic; Sentimentality. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 114 - Topics in Writing**

Topics vary by semester and professor. Representative topics: Writing Literary Criticism; Reading and Writing Autobiography; Literary Journalism. May repeat for credit with different content. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.  
Credits: 3.00

**ENGS 117 - Advanced Writing Non-Fiction**

In this workshop for experienced writers, students pursue projects of their own design, sometimes in accordance with a particular course theme such as "nature writing". Pre/co-requisites: ENGS 1, 50, 53 or instructor's permission.  
Credits: 3.00

**ENGS 118 - Advanced Writing: Fiction**

This upper-level course for fiction writers of proven ability employs a seminar/workshop format, with most classroom time devoted to manuscript discussion. Permission required. Pre/co-requisites: Sophomore standing and ENGS 53  
Credits: 3.00

**ENGS 119 - Advanced Writing: Poetry**

This upper-level course for poets of proven ability employs a seminar/workshop format, with most classroom time devoted to manuscript discussion. Permission required. Pre/co-requisites: Sophomore standing and ENGS 53.  
Credits: 3.00

**ENGS 120 - Writer's Workshop**

This workshop for serious writers of all levels of ability emphasizes autobiographical aspects of the writing of fiction, poetry, and personal essays. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.  
Credits: 3.00

**ENGS 131 - Topics in Bible & Lit**

Examines literary, historical approaches to Bible and its influences. Topics include: Bible as Literature; Bible and Literary Imagination. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00



**ENGS 133 - Chaucer**

Study of the principle works of Chaucer, emphasizing Chaucer's literary scope, talents, and position in medieval literature. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 134 - Topics in Medieval Literature**

Topics examining Medieval literature in various intellectual , historical, aesthetic contexts. Topics: Medieval Drama; Daughters of Mary/Daughters of Eve. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 135 - Shakespeare**

Survey of Shakespeare's plays covering a range of genres (comedy, history, tragedy, romance, problem plays) drawn from the entire arc of Shakespeare's career. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 136 - Topics in Shakespeare**

Examines Shakespeare's works in intellectual, historical, aesthetic contexts. Topics: Shakespeare and Philosophy; Engendering Shakespeare; Shakespeare and Renaissance Drama. May be repeated for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 137 - Topics in Ren Lit & Culture**

Examines poetry, drama, and/or prose of English Renaissance in context of various movements of the Tudor-Stuart period. May repeat for credit with different content. Pre/co-requisites: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 138 - Milton**

Milton's major works in various intellectual, historical, and aesthetic contexts, with special attention to "Paradise Lost." Pre/co-requisite: Three hours in English courses numbered ENGS 005- ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 140 - Survey Brit Lit to 1700**

Works by major authors (including Chaucer, Shakespeare, and Milton) from the Anglo-Saxon period to early Enlightenment. Recommended for students considering graduate-level work in English. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 141 - Restoration & 18thC Literature**

Significant writers and dramatists from Behn and Dryden to Sheridan and Johnson. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 143 - Topics:18C,19C Brit Lit & Cul**

Topics examining issues in 18th- and 19th-century British literature and culture. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 144 - Topics in Romanticism**

Late 18th- and early 19th-century English literature, for example, works by Wordsworth, the Shelleys, Keats. Occasional special topics. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 145 - Topics in Victorian Literature**

Primarily poetry, drama, non-fiction prose from 1832 to 1900, for example, Tennyson, the Brownings, the Rossettis, Wilde. Occasional special topics. May repeat with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 146 - 19th Century British Novel**

British fiction of the 19th century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 150 - Topics: Early American Studies**

Topics in literature and cultures of Americas from European conquest to 1800. Topics: Imagining America; Dissent in America. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 151 - 19th Century American Poetry**

American verse of various genres and modes by such authors as Whitman, Poe, Dickinson, Longfellow, and Sigourney. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 152 - 19th Century American Fiction**

Short stories, novellas, and novels by such writers as Cooper, Sedgwick, Poe, Hawthorne, Wilson, Melville, Stowe, James, Harper, Chesnutt, Chopin, and Jewett. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 156 - Topics:19C American Studies**

Interdisciplinary topics examining issues in 19th-century American culture. Representative topics include: Dissent in America, American Literary Cultures. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 158 - Topics:19C Women's Writing**

Various genres by 19th-century women. Topics: The Petticoat Empire; Women's Regionalist Fiction; 19th-century British and American Women's Writing. May repeat for credit with different content. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing. Cross-listings: WST 122.

Credits: 3.00

**ENGS 159 - Afr Am Lit to Harlem Ren**

A survey of African American writings from the Colonial period to WW1. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 160 - Afr Am Lit & Cul Before 1900**

Topics in literature and culture of African Americans before 1900. Topics: Slavery and American Literature; Slavery's Shadows. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 161 - 20th-Century British Novel**

British novelists since 1900, including Forster, Conrad, Lawrence, Woolf, and other more recent writers. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 162 - 20th-Century Irish Literature**

Irish literature from 1890 to the present, emphasizing Joyce and Yeats. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 163 - Topics:20C American Studies**

Interdisciplinary topics examining issues in 20th-century American culture. Representative topics include: Poe's Children; The Literary Vampire; Jazz. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 164 - Modern Poetry**

Poetry from beginning of modern period to end of WWII, emphasizing Yeats, Eliot, Stevens, Auden, Frost, Williams. May be repeated for credit with different content. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.  
Credits: 3.00

**ENGS 165 - Modern Drama**

20-century drama by writers such as Ibsen, Shaw, Beckett, Brecht, Miller, Pinter, and Churchill. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 166 - Modern American Novel**

The tradition of the American novel through the mid-twentieth century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 167 - Topics in Modernism**

Topics vary by semester and by professor. Representative topics: Joyce. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 168 - Topics in Post-Modernism**

Interdisciplinary topics examining literature and cultures of the Post-Modern condition. Representative topics include: Magical Realism, Realism and Hyper-realism. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 169 - Queer Topics in 20C Lit & Cul**

Examines representations of non-normative sexuality and gender through theory, film, literature, and/or cultural studies. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.00

**ENGS 171 - Contemporary American Poetry**

American poetry since 1950 by writers such as Lowell, Bishop, Levine, Olds, Hayden, Harper. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 172 - Contemporary American Novel**

The American novel from the mid-twentieth century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 173 - Contemporary Short Fiction**

Among considerations of this discussion-oriented class will be strengths and weaknesses of short stories and story collections published from 1990 to present. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 176 - Afr Am Lit since Harlem Ren**

Survey of the various literary traditions of African Americans during the 20th century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096 ; Sophomore standing.

Credits: 3.00

**ENGS 177 - Topics in 20C Afr Am Lit & Cul**

Interdisciplinary topics in African American literature and culture. Representative topics include: The Harlem Renaissance and Negritude; Publishing Blackness. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 178 - Literature of Vermont**

An exploration of Vermont writing from the narratives of the Allen brothers to poetry and fiction of today. Occasional special topics. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing. Cross-listed with: VS 160.

Credits: 3.00

**ENGS 179 - Topics in African Literature**

Examines trends in contemporary African literature and relationship to other traditions. Topics: African Drama; African Fiction; African Poetry. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

**ENGS 180 - Topics in Canadian Literature**

Topics vary by semester and by professor. Representative topics: The Development of a National Literature. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

### **ENGS 181 - Topics in Caribbean Literature**

Topics vary by semester. Topics: Introduction to Anglophone Caribbean Literature; Contemporary Caribbean Women Writers; History of Caribbean Novel. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

### **ENGS 182 - Colonial/Post-Col World Lit**

Topics vary by semester. Representative topics: Contemporary Writing from the Non-Western World; Literature and Imperialism. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

### **ENGS 188 - Topics in 20C Comparative Lit**

Compares literary works from different countries, cultures, languages. Topics: 20th-Century Poetry of Witness; Magical Realism in Post-Colonial Literature. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

### **ENGS 189 - Topics in 20C Women's Writing**

Works in various genres by 20-century women. Representative topics include: African Women's Writing; Gender and Modernism. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.00

### **ENGS 190 - Buckham Honors Seminar**

Each seminar includes participation of a distinguished visiting scholar or writer, such as Stephen Greenblatt, Barbara Johnson, Houston Baker, Sacven Bercovitch, William Kennedy, Stephen King. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 3.00

### **ENGS 191 - Internship**

Pre/co-requisite: Departmental permission; Junior/ Senior standing.

Credits: 3.00

### **ENGS 192 - Internship**

Pre/co-requisite: Departmental permission; Junior/Senior standing.

Credits: 3.00

**ENGS 195 - Intermediate Special Topics**

See schedule of courses for specific titles. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 6.00

**ENGS 196 - Intermediate Special Topics**

See schedule of topics for specific titles. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 3.00

**ENGS 197 - Readings and Research**

Department permission required. Not to exceed three hours per semester. See schedule of courses for specific titles. Pre/co-requisite: Department permission.

Credits: 3.00

**ENGS 198 - Readings and Research**

Department permission required. Not to exceed three hours per semester. See schedule of courses for specific titles. Pre/co-requisite: Department permission.

Credits: 1.00 to 6.00

**ENGS 201 - Sem Engl Lang or Critical Thry**

Recent topics: "Origins and Development of the English Language;" "Re-disciplining the History of Literature and Prerequisites: 86, 6 hours at the intermediate level, and instructor permission

Credits: 3.00

**ENGS 202 - Sem Engl Lang or Critical Thry**

Recent topics: "Origins and Development of the English Language;" "Re-disciplining the History of Literature and the Literature of History;" "Women's Texts." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 211 - Sem in Composition & Rhetoric**

Recent topics: "Writing the New Yorker;" "Writing Vermont Life;" "Editing and Publishing." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 212 - Sem in Composition & Rhetoric**

Recent topics: "Writing the New Yorker;" "Writing Vermont Life;" "Editing and Publishing." Prerequisite: ENGS 086; six hours at the intermediate level; and Instructor permission.

Credits: 3.00

**ENGS 221 - Seminar in Literature to 1800**

Recent topics: "Women in 17th Century English Poetry;" "Dante and the Experience of Reading;" "Orality and Textuality in Middle English Literature."

Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 222 - Seminar in Literature to 1800**

Recent topics: "Women in 17th Century English Poetry;" "Dante and the Experience of Reading;" "Orality and Textuality in Middle English Literature."

Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 241 - Seminar in 19th Century Lit**

Recent topics: "Dickens"; "Reader, I Married Him: The Brontes;" "Love, Marriage, and Literary Criticism: Jane Austen;" "Reading Serially: The Victorian Novel;"

"Invisible Man and 19th Century American Literature," "The Gothic." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 242 - Seminar in 19th Century Lit**

Recent topics: "Dickens"; "Reader, I Married Him: The Brontes;" "Love, Marriage, and Literary Criticism: Jane Austen;" "Reading Serially: The Victorian Novel;"

"Invisible Man and 19th Century American Literature," "The Gothic." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 251 - Seminar in 20th Century Lit**

Recent topics: "The Beat Generation;" "Literature and Society in Modern Ireland;" "Dostoevsky's Influence on 20th Century American Literature." Prerequisite: ENGS

086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 252 - Seminar in 20th Century Lit**

Recent topics: "The Beat Generation;" "Literature and Society in Modern Ireland;" "Dostoevsky's Influence on 20th Century American Literature." Prerequisite: ENGS

086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 281 - Sem Lit Themes, Genres, Folklore**

Recent topics: "Spiritual Journeys;" "Murder, He Said: Detective Fiction;"

"Chekhov to Cheever: The Short Story." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.00



**ENGS 282 - Sem Lit Themes, Genres, Folklore**

Recent topics: "Spiritual Journeys;" "Murder, He Said: Detective Fiction;" "Chekhov to Cheever: The Short Story." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.00

**ENGS 295 - Advanced Special Topics**

Prerequisites: 86, 6 hours at the intermediate level, and instructor permission.

Credits: 6.00

**ENGS 296 - Advanced Special Topics**

Prerequisites: 86, 6 hours at the intermediate level, and instructor permission.

Credits: 3.00

**ENGS 320 - Seminar: Major Author**

In-depth study of the works, critical reception, and context of an author writing in English. Representative topics: Chaucer; Shakespeare; Milton; Austen; Dickinson; Morrison.

Credits: 3.00

**ENGS 330 - Seminar: Literary Period**

Advanced survey of authors, themes, genres, and/or cultural context in a British or American literary period. Representative topics: British Renaissance; Restoration and Eighteenth Century; Victorian; American Renaissance.

Credits: 3.00

**ENGS 340 - Studies in Rhetoric & Comp**

Introduction to current issues in the field. Representative topics: Rhetorical theory; gender, class, and composing; writing across the curriculum; collaborative learning, literature and composition.

Credits: 3.00

**ENGS 350 - Surv of Lit Theory & Criticism**

Theory and Criticism.

Credits: 3.00

**ENGS 360 - Seminar: Special Topics**

Topic varies, based on faculty research. Representative topics: orality and literacy in medieval literature; feminist theory; anthropological approaches to literature; narrative theory and Victorian novels.

Credits: 3.00

**ENGS 370 - Principles of Literary Rsch**

Methods of literary study, research, and scholarship, including bibliographic, manuscript, and archival work.

Credits: 3.00

**ENGS 391 - Master's Thesis Research**

Credits: 6.00

**ENGS 392 - Seminar Paper Review**

Credits: 0.00

**ENGS 397 - Special Readings & Research**

Directed individual study of areas not appropriately covered by existing courses.

Permission of Graduate Director.

Credits: 3.00



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## Courses in Environmental Sciences (ENSC)

### ENSC 001 - Intro Environmental Sciences

Emphasizes the impacts of human activity on the environment. Attention to resources at risk and pollutant fate and effects on ecosystems.

Credits: 3.00

### ENSC 101 - Pollutant Mvmt/Air, Land & Water

Physical, chemical, and biological aspects of pollutant behavior from source to ultimate fate. Laboratory methodologies for measuring pollutants and predicting their transport, behavior, and fate. Prerequisites: 1; Biology 1, 2; Chemistry 31, 32; Math. 19, 20; co-requisite Chemistry 42.

Credits: 4.00

### ENSC 130 - Global Environmental Assessment

Assessment of human impacts on the global environment. Hands-on application of satellite remote sensing and geographic information systems to address key environmental issues. Prerequisite: BIOL 001 or BOT 004, CHEM 023, or equivalent, MATH 019.

Credits: 3.00

### ENSC 185 - Special Topics

See Schedule of Courses for specific titles. Variable credit.

Credits: 4.00

### ENSC 195 - Internship

Professionally-oriented field experience under joint supervision of faculty and business or community representative. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing; Maximum of six hours. Three can be applied to elected concentration with Director permission.

Credits: 4.00

### **ENSC 196 - Independent Research**

Special study and research activity under the directory of a faculty member.

Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing. Up to six hours. Three can be applied to elected concentration with Director permission.

Credits: 1.00 to 6.00

### **ENSC 201 - Recovery&Restor Altered Ecosys**

Role of stress and disturbance and the natural process of recovery in aquatic and terrestrial ecosystems. Human efforts to modify, restore, and remediate altered ecosystems. Prerequisites: Natural Resources 103 or an intermediate-level ecology course; or instructor's permission. Environmental Sciences 101 strongly recommended.

Credits: 4.00

### **ENSC 202 - Ecological Risk Assessment**

Approaches used to identify, measure, and manage ecological risk. Problem formulation, characterization, uncertainty analysis, and risk management. Case studies. Prerequisite: ENSC 201, NR 140 or STAT 141; Senior standing, or Instructor permission.

Credits: 4.00

### **ENSC 222 - Pollution Ecology**

Impacts of pollutants on the structure and function of ecosystems. Examination of how air, land, and water influence ecological fate and effects of pollutants.

Prerequisites: Biology 1; Chemistry 23, Natural Resources 103 or equivalent ecology course. (Not offered for graduate credit.)

Credits: 3.00

### **ENSC 285 - Adv Special Topics ENSC**

See Schedule of Courses for specific titles. Prerequisites: Senior standing or instructor's permission. Variable credit. (Not offered for graduate credit.)

Credits: 4.00

### **ENSC 299 - Environmental Sciences Honors**

Honors project dealing with environmental sciences. Prerequisites: By application only; see program chair.

Credits: 6.00



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## Courses in Environmental Studies (ENVS)

### ENVS 001 - Intro to Environmental Studies

Survey of environmental studies examining ecological, socioeconomic, aesthetic, and technological influences determining quality of life on earth. Prerequisite: First-year/Sophomore standing or Instructor permission.

Credits: 4.00

### ENVS 002 - Internat'I Environmental Stds

A multidisciplinary analysis of the interaction of global and local variables in understanding and solving pervasive environmental problems. Prerequisite: First-year or sophomore standing.

Credits: 4.00

### ENVS 007 - Environmental Awareness

Selected current environmental issues from evolving political, religious, scientific, and social perspectives. For non-majors. Cannot receive credit for both ENVS 001 and ENVS 007

Credits: 3.00

### ENVS 095 - Special Topics

Introductory courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural areas management.

Credits: 4.00

### ENVS 096 - Special Topics

Credits: 3.00

### ENVS 100 - Environmental Theory

Comparative analysis of emerging concepts of human/environment relationships;

the history, philosophy, and theoretical framework of environmental studies.

Prerequisites: 1,2.

Credits: 3.00

**ENVS 151 - Intermed Environmental Studies**

Individual investigation of interdisciplinary areas of environmental studies with emphasis on academic and career choices and preparation for senior thesis/project. Prerequisites: Major in Environmental Studies; 1, 2; permission.

Credits: 3.00

**ENVS 152 - Environment Information Skills**

This course focuses on the complexities of conducting environmental research in a networked information age by teaching information concepts, skills, and broad ranging resources. Prerequisite: ENVS 151, or concurrently enrolled in ENVS 151.

Credits: 1.00

**ENVS 156 - Permaculture**

Cross-listed with: PSS 156. Design of agriculturally productive environments that have the diversity, stability, and resilience of the natural biosphere to harmoniously integrate landscape and people. Prerequisite: Three hours basic biological or ecological science, or permission.

Credits: 3.00

**ENVS 173 - Landscape Natural History**

This field-based course examines patterns and processes on local landscapes from an interdisciplinary perspective, with an emphasis on geology, soil science, plant ecology, and ecosystem geography. Prerequisites: ENVS 001; Sophomore standing.

Credits: 3.00

**ENVS 174 - Nat Areas Conservation&Steward**

Examines land protection and stewardship efforts of conservation organizations and public agencies. Builds on principles of conservation biology to understand issues in conserving and managing natural areas. Prerequisites: ENVS 001, NR 001, or Instructor permission.

Credits: 3.00

**ENVS 177 - Intro to Landscape Restoration**

Introduction to the history, philosophical foundations, and approaches to restoration of natural landscapes damaged by human activity and neglect. Case studies of selected local sites. Prerequisite: ENVS 001, NR 001, or Instructor permission.

Credits: 3.00

**ENVS 178 - Environmental Ethics**

Current approaches and problems in environmental ethics drawing on philosophy

and case studies in animal rights, land ethics, deep ecology, wilderness protection, and human rights. Prerequisite: One environmental course; Junior standing.

Credits: 3.00

**ENVS 179 - Ecofeminism**

Investigation of the parallel dominations of women and nature, through analysis and reflection on ecofeminist theory, activism, and spirituality. Prerequisite: ENVS 001, ENVS 002 or WGST 073; Sophomore standing. Cross-listed with: WST 179.

Credits: 3.00

**ENVS 180 - Radical Environmentalism**

Survey of radical environmental philosophy and activism from a liberation ethics perspective. Includes deep ecology, ecofeminism, environmental justice, and ecological resistance movements around the world. Prerequisite: ENVS 001, ENVS 002; Sophomore standing.

Credits: 3.00

**ENVS 181 - Strategic Environmental Leadership**

Theory and analysis of strategic environmental leadership as it varies with culture, ethnicity, and gender. Prerequisites: 1, 2, junior standing, permission of instructor.

Credits: 3.00

**ENVS 182 - Religion and Ecology**

Exploration of the greening of major world religious traditions in both practice and philosophy. Includes institutional, activist, and lifestyle initiatives in ecological spirituality. Prerequisites: ENVS 001 or ENVS 002; or NR 002, REL 020 or REL 021 preferred; Sophomore standing.

Credits: 3.00

**ENVS 190 - Environmental Skills**

Workshops to develop applied skills useful for environmental work and/or research. Topics vary by semester. Prerequisite: ENVS 001, ENVS 002.

Credits: 3.00

**ENVS 191 - Environmental Practicum**

Individual readings and research, internship, or field-based learning experience under direction of a faculty member or environmental practitioner. Credit arranged. Prerequisite: Permission of course coordinator.

Credits: 1.00

**ENVS 195 - Special Topics**

Intermediate courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course; Sophomore standing.

Credits: 6.00

### **ENVS 196 - Special Topics**

Intermediate courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course; Sophomore standing.

Credits: 3.00

### **ENVS 197 - Student Designed Course**

Course Student-taught courses beyond the scope of existing formal courses in environmental studies. Developed according to Program guidelines, with sponsorship by interested faculty. Prerequisites: 1, 2, permission.

Credits: 3.00

### **ENVS 201 - Research Methods**

Planning, design, and methods for the required senior thesis or project. Includes literature review and proposal writing. Prerequisites: 151, junior standing. (Not offered for graduate credit.)

Credits: 3.00

### **ENVS 202 - Senior Project and Thesis**

Senior level project or thesis under faculty direction. Prerequisites: 201, permission of Environmental Program. Credits arranged. (Not offered for graduate credit.)

Credits: 6.00

### **ENVS 203 - Honors Thesis**

Undergraduates only.

Credits: 1.00 to 9.00

### **ENVS 204 - Seminar Environmental Studies**

Review and discussion of current environmental research and literature.

Prerequisites: 1, 2, junior or senior standing. (Not offered for graduate credit.)

Credits: 3.00

### **ENVS 284 - Teaching Assistantship**

Students gain practical teaching experience through assisting with instruction, evaluation, and reflection. Tasks may include: leading discussion sessions, grading, and developing course materials. Prerequisites: Senior standing or permission of instructor, concurrent teaching assistant in ENVS course. Variable credit. May be repeated. UG only.

Credits: 1.00 to 2.00

### **ENVS 289 - Environmental Economics**

Application of economic theory and methods to environmental problems and policies. Includes cost-benefit analysis and economic incentives as tools for



environmental problem solving. Prerequisites: 1, three hours intermediate economics. For students in Arts and Sciences: Economics 11-12, intermediate course in ENVS. UG only.

Credits: 3.00

**ENVS 290 - Environmental Policy**

Public policy dimensions of natural resource management and environmental protection; U.S. historical context; policy analyses of contemporary issues; administration of environmental resource institutions. Prerequisites: Six hours of intermediate or advanced courses in ENVS or related areas. UG only.

Credits: 3.00

**ENVS 291 - Advanced Environmental Pract**

Individual readings and research, internship, or field-based learning experience at the advanced level, under direction of faculty member or environmental practitioner. Prerequisite: ENVS 001, ENVS 002; Senior/Graduate standing.

Credits: 3.00

**ENVS 293 - Environmental Law**

Principles of environmental law, including legal research methods, threshold issues, case law, trial procedure, and international comparisons in aspects of air, land, and water law. Prerequisite: Junior standing.

Credits: 3.00

**ENVS 294 - Environmental Education**

Philosophy, concepts, and strategies of environmental education, emphasizing integration of environmental concerns into formal and nonformal educational programs for youth and adults. Prerequisite: Six hours of intermediate or advanced courses in Environmental Studies or related areas.

Credits: 3.00

**ENVS 295 - Advanced Special Topics**

Advanced courses of current areas of interest which may vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course at 100 level; Junior standing.

Credits: 6.00

**ENVS 296 - Advanced Special Topics**

Advanced courses of current areas of interest which may vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisites: One environmental course at 100 level, junior standing. UG only.

Credits: 4.00



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## Courses in Family&Consumer Sciences (EDFC)

### **EDFC 055 - Special Topics I**

Credits: 2.00 to 6.00

### **EDFC 123 - Methods In Nutrition Education**

Planning and presenting of appropriate methods, media, and materials for audiences in community, school, and institutional settings emphasizing interpersonal communication and group process skills.

Credits: 3.00

### **EDFC 200 - Contemporary Issues**

Credits: 6.00

### **EDFC 220 - Fam&Consumer Sci/Contemp Schl**

Required for licensure. Exploration of education options in a variety of family and Consumer Sciences related areas and in different types of schools and programs. (Not offered for graduate credit).

Credits: 3.00

### **EDFC 221 - Mgmt School Youth Organization**

The role of youth organization advisor, particularly FCCLA. Emphasis on service learning and use of advisory councils. Includes observation and participation in school related activities. (Not offered for graduate credit).

Credits: 2.00

### **EDFC 222 - Curriculum Dev Human Sciences**

Basic principles of curriculum development applied to human sciences education. Unique characteristics and contributions of human science education as related to educational, economic, and sociological trends. Spring in odd number years.

Credits: 3.00

**EDFC 224 - Evaluation In Human Sciences**

Test, questionnaire, interview schedule construction, and other non-testing means of evaluation. Usability, objectivity, validity, reliability, and discrimination of evaluation instruments. Selected sociometric techniques and evaluation in affective domain. Spring.

Credits: 3.00

**EDFC 225 - Teaching Pract: Human Sciences**

Teaching in middle or secondary schools under guidance of cooperating teachers and college supervisor. Credits variable up to 15 hours per semester. (Not offered for graduate credit).

Credits: 12.00

**EDFC 295 - Lab Experience in Education**

Credits: 3.00

**EDFC 296 - Special Topics**

Credits: 3.00



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## Courses in Film & Television Studies (FTS)

### FTS 007 - Dev Motion Pct I:Origin-1930

Introduction to basic film history, theory, and analytical skills. An historical overview of international cinema from its origins until 1930.

Credits: 3.00

### FTS 008 - Dev Motion Pct II:1930-1960

Introduction to basic film history, theory, and analytical skills. An historical overview of international cinema from the onset of sound to 1960.

Credits: 3.00

### FTS 009 - History of Television

Introduction to basic television history, theory and analysis. An historical overview of television from its invention to the present.

Credits: 3.00

### FTS 095 - Intro Spec Topics in Film/TV

See schedule of courses for specific titles.

Credits: 3.00

### FTS 096 - Intro Spec Topics in Film/TV

See schedule of courses for specific titles.

Credits: 3.00

### FTS 121 - Studies in Film/TV Theory

Intensive study of developments in film and/or television theory, such as realism, formalism, psychoanalysis, critical race theory, and feminism. May be repeated for credit. Pre/co-requisite: FTS 007, FTS 008, or FTS 009.

Credits: 3.00

**FTS 122 - Studies in Film/TV Genre**

An investigation into the theoretical and historical circumstances surrounding the production of film and/or television genres. May be repeated for credit. Pre/co-requisites: FTS 7, 8, or 9.

Credits: 3.00

**FTS 123 - Global Studies in Film/TV**

Investigations of nation and identity in film and/or television approached in their specific cultural, historical, and theoretical terms. May be repeated for credit.

Pre/co-requisite: FTS 007, FTS 008, or FTS 009.

Credits: 3.00

**FTS 124 - Contemporary Topics in Film/TV**

Explorations into various issues, ideas, and movements within contemporary film and/or television. May be repeated for credit. Pre/co-requisite: FTS 007, FTS 008, or FTS 009.

Credits: 3.00

**FTS 195 - Intermediate Special Topics**

See Schedule of Courses for specific Titles. Pre/co-requisite: FTS 007, FTS 008, or FTS 009.

Credits: 3.00

**FTS 196 - Intermediate Special Topics**

See Schedule of Courses for specific Titles. Pre/co-requisite: FTS 007, FTS 008, or FTS 009.

Credits: 3.00

**FTS 197 - Readings & Research**

Credits: 1.00 to 3.00

**FTS 198 - Readings & Research**

Credits: 1.00 to 3.00

**FTS 271 - Seminar in Film/Television**

Advanced level investigations into the critical study of film and/or television. The topic will be the professor's choice. May be repeated for credit. Pre/co-requisite: FTS 007, FTS 008, or FTS 009; FTS 121.

Credits: 3.00

**FTS 272 - Seminar in Film/Television**

Advanced level investigations into the critical study of film and/or television. The topic will be the professor's choice. May be repeated for credit. Pre/co-requisite: FTS 007, FTS 008, or FTS 009; FTS 121.

Credits: 3.00



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## Courses in Forestry (FOR)

### FOR 001 - Forest Conservation

Introduction to the ecology and management of American forests: forest distribution, ownership, and ecological factors, species interactions, multi-resource management goals, and silvicultural practices. Cannot be taken by Junior/Senior-level RSENR students.

Credits: 3.00

### FOR 021 - Dendrology

Classification, silvical characteristics, and identification features of native and introduced trees and shrubs.

Credits: 4.00

### FOR 073 - Small Woodland Management

Concepts of forest ecology, resource inventory, cultural practices, and multiple use management for small woodland areas.

Credits: 3.00

### FOR 081 - Forestry Seminar

Readings and discussions introducing current issues in forestry. Prerequisite: First-Year/Sophomore standing in Natural Resources.

Credits: 1.00

### FOR 120 - Forest Ecology

Forest environment and its effects on the development and distribution of forest communities. Introduction to population dynamics, systems and analysis, diversity, stability, ecosystem disturbances, and succession. Prerequisite: NR 001, or another introductory Biological Science course. Not offered 2001-02.

Credits: 3.00

**FOR 121 - Forest Ecology Laboratory**

Application of ecological principles in the analysis of forest communities.

Prerequisite: NR 025; a course in tree identification; previous or concurrent enrollment in NR 103.

Credits: 2.00

**FOR 122 - Forest Ecosystem Analysis**

An integrated field course to investigate, through quantification and interpretation, the flora, fauna, and abiotic components (soils, physiography, water, and microclimate) of a selected forest ecosystem. Prerequisite: FOR 121, NR 140.

Credits: 4.00

**FOR 126 - Forest Ecology Field Trip**

Assessment of southeastern forest ecosystems including Smoky Mountain communities, and upland and bottomland forests of the Georgia Piedmont and South Carolina Coastal Plain. Field trip at end of spring semester. Prerequisite: A course in plant identification; a course in ecology; Instructor permission.

Credits: 2.00

**FOR 132 - Forest Fire Behavior & Mgmt**

Forest fire ecology, behavior, effects, weather relationships, danger rating, prevention, detection, management, prescribed fire, smoke management, wildland/urban interface, and multi-resource perspectives. Prerequisite: A course in plant ecology or concurrent enrollment; Knowledge of plant identification.

Alternate years.

Credits: 3.00

**FOR 133 - Forest Entomology**

(Cross-listed with Plant and Soil Science 107.)

Credits: 3.00

**FOR 146 - Remote Sensing of Natural Res**

Cross-listed with: NR 146, GEOG 185. Identification, interpretation, measurement, and mapping of natural resources from aerial photographs and satellite imagery.

Labs include air photo interpretation and digital image analysis. Prerequisites: Junior standing. Alternate years.

Credits: 3.00

**FOR 152 - Forest Resources Values**

History, methods, and current issues associated with the nonmarket and market values of forest-based resources, including aesthetics, wildlife, recreation, water, and timber. Prerequisites: Economics 12 or CDAE 61. (Same as Recreation Management 152).

Credits: 3.00

**FOR 158 - Stewardship: Private Woodlands**

Basic financial, legal and operational aspects for long-term ownership and stewardship of woodlands; appraisals, taxation, land trusts, conservation easements, estate planning; Vermont focus. Prerequisite: Course in Economics.  
Credits: 3.00

**FOR 162 - Properties & Uses of Wood**

Properties, uses, and identification of commercial woods of the U.S. Manufacture of major wood products. Prerequisite: A course in tree identification. Alternate years.  
Credits: 3.00

**FOR 163 - Timber Harvesting**

Private forest emphasis; impacts of alternative techniques on cultural and natural resources; preharvest inventory, prescription, layout, contracts, bookkeeping; postharvest operations. Alternate years.  
Credits: 3.00

**FOR 182 - Advanced Forestry Seminar**

In-depth examination of contemporary issues in forestry. Prerequisite: Junior/Senior standing in Forestry. Credit arranged.  
Credits: 1.00

**FOR 185 - Undergrad Special Topics**

Readings, investigations, and lectures in selected forest resource subjects. Prerequisite: Instructor permission. Credit arranged.  
Credits: 4.00

**FOR 191 - Forestry Work Practicum**

Supervised work experience in forest resource area. Prerequisite: Instructor permission. Credit arranged.  
Credits: 3.00

**FOR 223 - Multi-Resource Silviculture**

Theory and application of forest stand maintenance/manipulation for forest ecosystem sustainability. Topics: Silvics, regeneration, tree improvement, protection, stand structure/dynamics/tending, and multi-resource perspectives. Prerequisites: NR 25, 103, FOR 121 (FOR 122-Forestry majors). UG only.  
Credits: 4.00

**FOR 225 - Tree Structure & Function**

Basic anatomy and physiology of trees and other woody plants, emphasizing their unique structural and physiological adaptations to the environment. Prerequisite: Permission.  
Credits: 3.00

**FOR 228 - Ecosystem Ecology**



Examination of the structure and function of terrestrial ecosystems using a systems approach. Laboratory sessions involve modeling and data analysis. Prerequisites: Biology 1, 2, Chemistry 23, an intermediate ecology course, Natural Resources 140, Math. 19, Physics 11 or equivalent. Alternate years, 2002-03. Credits: 2.00

**FOR 231 - Integrated Forest Protection**

Integration of concepts of forest protection using a holistic ecological approach to forest pest management. Detection, population dynamics, evaluation, prediction, and pest management considerations. Prerequisite: FOR 133, FOR 234, or Instructor permission. Alternate years, 2001-02. Credits: 3.00

**FOR 234 - Forest Pathology**

An in-depth survey of diseases of forest and shade trees emphasizing identification, morphology, physiology, ecology, epidemiology, genetic relationships, integrated disease management, and multi-resource perspectives. Prerequisites: Biology 1 & 2, knowledge of plant identification and ecology. UG only. Credits: 4.00

**FOR 272 - Sustainable Mgmt Forest Ecosys**

Principles of long-term planning and plan implementation in support of sustainable forestry; Adaptive management; biodiversity and ecosystem health; major management planning project. Prerequisite: FOR 122, NR 205; concurrent or prior enrollment in FOR 223, or Graduate standing. Credits: 4.00

**FOR 285 - Advanced Special Topics**

Advanced special topics courses or seminars in forestry beyond the scope of existing formal courses. Prerequisite: Graduate or advanced undergraduate standing; Instructor permission. Credit as arranged. Credits: 4.00

**FOR 291 - Senior Research**

Work on research problem under direction of a staff member. Findings submitted in written form as prescribed by department. Prerequisites: Senior standing, permission. (Not offered for graduate credit.) Credits: 3.00

**FOR 292 - Senior Research**

Work on research problem under direction of a staff member. Findings submitted in written form as prescribed by department. Prerequisites: Senior standing, permission. (Not offered for graduate credit.) Credits: 3.00

**FOR 299 - Honors**

Honors project dealing with the biology and/or management of forest ecosystems.

Prerequisite: By application only; see program chair. UG only.

Credits: 3.00 to 6.00

**FOR 385 - Selected Problems in Forestry**

Advanced readings, or a special investigation dealing with a topic beyond the scope of existing formal courses. Prerequisite: Instructor permission.

Credits: 4.00

**FOR 391 - Master's Thesis Research**

Credits: 1.00 to 6.00

**FOR 392 - Master's Project Research**

Credits: 1.00 to 6.00



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## Courses in Foundations (EDFS)

### **EDFS 197 - Readings and Research**

Credits: 1.00

### **EDFS 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.00

### **EDFS 203 - Soc, Hst & Phil Found of Educ**

Critical examination of central educational/social issues and values with special emphasis on the struggle for justice and equality. Themes include schooling and social class, race, and gender; the purposes of education; and the responsibilities of teachers. Prerequisite: Enrollment in teacher licensing program.

Credits: 3.00

### **EDFS 204 - Sem in Educational History**

Selected topics in history of education. Education in democratic and authoritarian social orders. Topics: education of women, black heritage, American higher education in transition. Prerequisite: Twelve hours in Education and related areas or Instructor permission.

Credits: 3.00

### **EDFS 205 - History of American Education**

Educational principals and practices in the U.S. as they relate to the main currents of social history. Key ideas of historic and contemporary significance. Prerequisite: Twelve hours in Education and related areas or Instructor permission.

Credits: 3.00

**EDFS 206 - Comparative Education**

Examines educational challenges confronting countries around the world. Explores issues related to sustainable development, diversity, citizenship, and justice in formal and nonformal educational contexts. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.00

**EDFS 209 - Intro to Research Methods**

Seminars and research projects. Methods of historical, descriptive, experimental, quasi-experimental, field studies, and survey research.

Credits: 3.00

**EDFS 255 - School as Social Institution**

Examination of the school and related social institutions, focus on themes, including: social class, race, ethnicity, socialization, role of the family, social change. Prerequisite: Twelve hours of Education and related areas.

Credits: 3.00

**EDFS 295 - Lab Experience in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 3.00

**EDFS 302 - Philosophy of Education**

Critical examination of key beliefs and values in current philosophies of helping, e.g. phenomenological, behavioral, holistic, as practiced in a variety of educational and social service institutions. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDFS 303 - Ethics Helping Relationships**

Clarification of ethical dimensions of professional rights and obligations for educators, counselors, administrators, other helping professionals. Examination of selected ethical controversies currently facing the helping professionals. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDFS 304 - Religion, Spirituality & Ed**

A narrative approach to thinking about religion and spirituality and theoretical and practical implications for policy making, pedagogy, curriculum development, and educational leadership.

Credits: 3.00

**EDFS 309 - Schol Pers Narr Writing:ED&SS**

A workshop for educational writers of theses, dissertations, and scholarly articles.

Students will be introduced to critical theory, postmodern, feminist, and narrativist conceptions of educational writing.

Credits: 3.00

**EDFS 314 - Modes of Inquiry**

A critical analysis of the various conceptual and methodological foundations of theory and practice in education and the human services. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDFS 322 - Chall Multicultrsm/Ed&Soc Inst**

Critical analysis of social, historical, and philosophical dimensions of multiculturalism. Examination of identity, empowerment, and justice and their relationships to educational/social policies and practices. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDFS 347 - Qualitative Research Methods**

Introduces students to qualitative methods as a research paradigm and develops skills in ethnographic techniques of field observation, interviewing, and data analysis. Out-of-class fieldwork required. Prerequisite: Master's or doctoral level standing or Instructor permission.

Credits: 3.00

**EDFS 348 - Analyze&Write Qualitative Rsch**

This course extends students' knowledge of and experience with qualitative research analysis and writing. Students must come with data collected previous to the start of the course. Prerequisite: EDFS 347 or Instructor Permission.

Credits: 3.00

**EDFS 352 - Aesthetic Ed & Social Justice**

Exploration of art that deepens understanding of educational and social problems. Focus on artists who challenge dominant powers. Incorporates democratic perspectives on art and aesthetics. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDFS 354 - Anth Persp on Ed & Soc Serv**

Examination of formal and non-formal education as means to produce and alleviate cultural conflict. Incorporates an autobiographical approach to studying socio-cultural implications of schooling and social services. Emphasis on Third World situations. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDFS 369 - Ethics in Ed & Soc Serv Admin**

Critical examination of theories of ethical decision making. Implications for

leadership in educational, social service settings. Ethical investigation utilizing research, scholarship, actual incidents, case studies, role playing. Prerequisite: Ed.D. students have priority.

Credits: 3.00

**EDFS 377 - Seminar Educational Psychology**

Personal values, attitudes, beliefs related to learning. Psychological research of the teaching-learning process. Research use in analysis of educational processes. Applications for educational settings. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDFS 380 - Professional Problems in Educ**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.00

**EDFS 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1.00 to 18.00

**EDFS 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 3.00

**EDFS 455 - Soc Process & Institutional Chg**

Critical analysis of theory and research related to justice, caring, and change in education and other social institutions. Focus: ideology, diversity, and management of knowledge. Prerequisite: Doctoral level standing.

Credits: 3.00



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## Courses in French (FREN)

### FREN 001 - Elementary I

Fundamentals of French composition, comprehension, pronunciation, speaking, reading, writing. Structure of the basic French sentence. No prior knowledge expected.

Credits: 4.00

### FREN 002 - Elementary II

Continuation of FREN 001. Prerequisite: FREN 001 or equivalent.

Credits: 4.00

### FREN 009 - Basic French Grammar Review

Thorough review of French grammar in preparation for intermediate level. Considerable emphasis on written exercises.

Credits: 3.00

### FREN 051 - Intermed Rdg & Conversation I

Designed to help students move from a basic knowledge of French to the ability to read, speak, and understand French better. Some grammar review and short compositions. Prerequisite: FREN 002 or FREN 009 or equivalent.

Credits: 3.00

### FREN 052 - Intermed Rdg & Conversation II

Continues building on skills developed in FREN 051. Less stress on grammar review. Reading selections and compositions are longer and more sophisticated than in FREN 051. Prerequisite: FREN 051 or equivalent.

Credits: 3.00

### FREN 095 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 3.00

**FREN 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**FREN 101 - Writing Workshop**

Improvement of functional skills: writing, listening, and speaking. Development of techniques to explain, elaborate, support opinions, convince, and persuade in both writing and speaking. Prerequisite: FREN 052 or equivalent.

Credits: 3.00

**FREN 104 - Contemporary France**

Study of selected aspects of France today. Improvement of language skills; emphasis on reading, writing, and analysis of a variety of materials FREN 101. (literature, journalism, images). Pre/co-requisite:

Credits: 3.00

**FREN 105 - French Culture**

Study of the fundamentals of French culture from historical and structural perspectives, including a review of sociopolitical institutions. Pre/co-requisite: FREN 101.

Credits: 3.00

**FREN 107 - Focus on Oral Expression**

Guided practice of oral-aural skills through vocabulary and pronunciation exercises, readings, and oral presentations. Writing exercises reinforce oral work. Prerequisite: FREN 052 or equivalent.

Credits: 3.00

**FREN 111 - French Lit in Context I**

A study of significant texts in the history of French literature from the Middle Ages through the 18th century, in their historical and cultural contexts. Prerequisites: FREN 101; Senior French majors with Instructor permission only.

Credits: 3.00

**FREN 112 - French Lit in Context II**

A study of significant texts in the history of French literature from the French Revolution to the present, in their historical and cultural contexts. Prerequisites: FREN 101; Senior French majors with Instructor permission only.

Credits: 3.00

**FREN 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00



**FREN 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**FREN 197 - Readings & Research**

Permission of Chair required.

Credits: 1.00

**FREN 198 - Readings & Research**

Permission of Chair required.

Credits: 1.00 to 6.00

**FREN 201 - Adv Composition & Conversation**

Course activities (discussions, exposes, written work, etc.) designed to lead to mastery of French oral and written expression. Prerequisite: 101. (Not offered for graduate credit.)

Credits: 3.00

**FREN 205 - Topics in Adv Lang Study**

Varied topics devoted to a special area such as translation, creative writing, French for the professions (medicine, business, journalism, law), etc. Prerequisites: 101. Not offered for graduate credit.

Credits: 3.00

**FREN 209 - Advanced Grammar**

Comparative grammatical study centered on the specific problems encountered by Anglophones in written and spoken French. Prerequisite: 101. Not offered for graduate credit.

Credits: 3.00

**FREN 235 - Medieval/Renaissance Studies**

Exploration of writing from Medieval/Renaissance France. Readings to include chivalric romances, heroic and comic epic, lyric poetry, tales by Marguerite de Navarre, essays by Montaigne. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 237 - Early French Women Writers**

Exploration of how women from the Middle Ages through the Revolution spoke of love, education, the place of women, the power of writing and more. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 247 - Power/Desire in Class Fr Drama**

How dramatists like Corneille, Moliere and Racine used history, legend and satire to explore questions of tyranny, freedom, passion, generosity, hypocrisy, truthfulness and more. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 256 - Enlightenment Society Reimagined**

How did 18C writers use the representation of social hierarchy, gender relations, the exotic, etc., to (re-)define French culture on the eve of the Revolution?

Prerequisites: 111 or 112.

Credits: 3.00

**FREN 265 - Romanticism and Symbolism**

Exploration of the idealistic tradition in 19th century French poetry and novels.

Authors may include Constant, Chateaubriand, Stael, Hugo, Flaubert, Baudelaire, Verlaine, Mallarme. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 266 - Rev&React in 19th C Narrative**

Study of the representations of major social issues of the period, such as power, class, money, and women. Representative authors: Balzac, Flaubert, Sand, Stendhal, Zola. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 269 - La Belle Epoque**

The aesthetic and moral dilemmas of the turn-of-the-century "decadent" period in French literature, focusing especially on the changing representation of the artist and intellectual. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 270 - Lyric Poetry: Harmony & Crisis**

A consideration of the French lyric tradition. Authors may include the troubadours, Ronsard, Dubellay, Hugo, Baudelaire, Mallarme, Rimbaud, Valery, Roubaud.

Prerequisites: 111 or 112.

Credits: 3.00

**FREN 275 - Morality & Its Discontents-20C Lt**

20C French authors who challenge traditional notions of morality or advance new modes of philosophical thought and ethics. May include Colette, Gide, Malraux, Beauvoir, others. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 276 - Topics in Modern French Lit**

Selected topics dealing with poetry and/or narrative related either to an historical period or a literary movement. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 279 - Women's Autobiographies**

Study of several autobiographies written by contemporary French/Francophone women. Representative authors include Colette, de Beauvoir, Sarraute, Duras,

Ernaux, Martin. Prerequisite: 111 or 112.

Credits: 3.00

**FREN 280 - Francophone Crossings**

Study of works in French that demonstrate multiple cultural influences. Topics may include: exile writings, cultural/linguistic mixing, colonialism and independence movements, human rights, immigration. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 285 - Quebec Literature**

A study of contemporary (1960-1985) major works of fiction, poetry, and drama. Authors studied include Anne Hebert, Michel Tremblay, Jacques Godbout, Gaston Miron. Prerequisites: Either 111 or 112 or both.

Credits: 3.00

**FREN 289 - African Lit: French Expression**

Study of West African poetry, theatre, novel, and civilization as an expression of the Black experience in the language of the French colonizer. Prerequisites: 111 or 112.

Credits: 3.00

**FREN 292 - Topics in French Culture**

In-depth study of a major aspect of French culture. See Schedule of Courses for specific offering. Prerequisites: 104 or 105 or permission.

Credits: 3.00

**FREN 293 - Quebec Culture**

Sociocultural study of the Francophone culture of Canada. Prerequisite: One 100-level French course.

Credits: 3.00

**FREN 294 - Topics in French Cinema**

A topical approach to the study of French cinema and cinematographic aesthetics, from the medium's beginnings through contemporary films. Pre/co-requisites: 111 or 112.

Credits: 3.00

**FREN 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**FREN 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**FREN 297 - Advanced Readings & Research**

Permission of Chair required.

Credits: 3.00

**FREN 298 - Advanced Readings & Research**

Permission of Chair required.

Credits: 3.00

**FREN 391 - Master's Thesis Research**

Credits: 1.00 to 18.00



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## Courses in Geography (GEOG)

### **GEOG 001 - World Regional Geography**

Basic introduction to Geography by way of a regional approach to human and environmental topics.

Credits: 3.00

### **GEOG 002 - World Natural Environments**

The patterns of the natural environment with particular attention to landforms, climate, soil, vegetation, and water resources.

Credits: 3.00

### **GEOG 043 - Weather & Climate**

Introduction to the fundamentals of the weather, as well as midlatitude and tropical climates. Topics include cloud formation, hurricanes, tornadoes, winter weather, climate change.

Credits: 3.00

### **GEOG 051 - Africa**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

Credits: 3.00

### **GEOG 052 - Canada**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

Credits: 3.00

### **GEOG 055 - Europe**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

Credits: 3.00

**GEOG 056 - Latin America**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

Credits: 3.00

**GEOG 057 - The United States**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

Credits: 3.00

**GEOG 060 - Geography/Race&Ethnicity in US**

Examination of the ways in which spatial and locational processes shape and are shaped by ethnic and racial identities, struggles, and relationships.

Credits: 3.00

**GEOG 073 - Geography of Global Economy**

Distribution of global economic activity and power. Processes of uneven development and globalization including industrialization, the "global assembly line," trade, investment, and migration.

Credits: 3.00

**GEOG 081 - Geotechniques**

Introduction to cartography, geographic information systems (GIS), and remote sensing. Map design and analysis using topographic/satellite data, air photo interpretation, digitizing, and Internet resources.

Credits: 3.00

**GEOG 090 - International Field Studies**

Field course abroad (e.g. South Africa or England). Intensive study of the geography of a country or region, with attention to related issues.

Credits: 3.00

**GEOG 092 - Vermont Field Studies**

Field course on a geographical theme (e.g. physical or regional geography) in the Burlington area or surrounding region. Cross-listed with: VS 092.

Credits: 3.00

**GEOG 095 - Special Topics in Geography**

See Schedule of Courses for specific titles.

Credits: 6.00

**GEOG 096 - Special Topics in Geography**

See Schedule of Courses for specific titles.

Credits: 3.00

**GEOG 143 - Climatology**

Analysis of regional and local climatic data with special reference to climatic controls; special laboratory projects. Prerequisite: 43 or instructor permission.

Credits: 3.00

**GEOG 144 - Geomorphology**

Prerequisite: GEOL 001 or GEOL 055. Cross-listed with: GEOL 151.

Credits: 4.00

**GEOG 145 - Geography of Water**

Examination of the spatial dimensions of water distribution from local to global scales, and the social, political, and economic dimensions of its use. Same as NR 102.

Credits: 3.00

**GEOG 151 - Southern Africa**

A regionally focused course. Topics will include: information economy, legacy of apartheid, impacts of HIV/AIDS, race, class, gender, land, governance and social justice. Prerequisite: 51.

Credits: 3.00

**GEOG 154 - Geography of Third World Dev**

Problems of poverty, insecurity, inequality and environmental degradation in the Third World. Economic change, migration, regional development, role of women. Focus on Africa and Asia.

Credits: 3.00

**GEOG 155 - Historical Geography of Europe**

European geography within a framework of past times; the historical development and distribution of settlement, economic, and political patterns. Prerequisite: GEOG 055. Cross-listed with: HST 120.

Credits: 3.00

**GEOG 170 - Historical Geography**

(Same as History 170.) Examination of the tools, techniques, and perspectives used in studying the historic development of places and landscapes. Vermont and other North American case studies. Prerequisites: 57 recommended or History 11 or 12 or instructor permission .

Credits: 3.00

**GEOG 171 - Cultural Geography**

Distribution of race, ethnicity, language, and religion at different geographical scales and how these factors contribute to world and regional events.

Prerequisites: 1 or Anthropology 21 or Sociology 1.

Credits: 3.00

**GEOG 173 - Political Ecology**

Human-environment interactions under globalization. Social and economic causes of global and local environmental problems. Environmental movements and sustainable livelihoods in First and Third Worlds.

Credits: 3.00

**GEOG 174 - Agricultural Geography**

Credits: 3.00

**GEOG 175 - Urban Geography**

Analysis of the morphology, function and social structure of cities. Consideration of the nature, history and theories of urban growth and development. Prerequisites: 1 or 73 or instructor permission.

Credits: 3.00

**GEOG 177 - Political Geography**

(Same as Political Science 161.) Examines the relationships between nation states and political identity. Other political-spatial constructs are also examined, including the private and public dichotomy, cyberspace, and borders.

Prerequisites: Recommended 1 or 73 or Political Science 51 or 71.

Credits: 3.00

**GEOG 178 - Gender, Space & Environment**

(Same as Women's Studies 170.) Examination of the ways in which human relationships to both the built and the natural environment are mediated by gender. Prerequisites: Six hours in geography or women's studies, or instructor's permission.

Credits: 3.00

**GEOG 179 - Cultural Ecology**

(Same as Anthropology 179.) Interrelationships of social groups and their natural environments and resource bases, with primary emphasis on nonindustrial cultures, examined from the perspectives of anthropology and geography.

Prerequisite: 1 or Anthropology 21.

Credits: 3.00

**GEOG 184 - Geog Info: Concepts & Applic**

Systematic approach to important geographical concepts (including distance, shape, scale dispersion) structured around the use of Geographical Information Systems (GIS) as an analytical tool. Pre/co-requisite: GEOG 081 or NR 025 or



equivalent.

Credits: 3.00

**GEOG 185 - Remote Sensing**

Examinations of the earth's surface from aerial photographs and satellite imagery. Emphasis is on image interpretation, classification, change detection, multivariate analysis (e.g. principal components analysis). Prerequisite: GEOG 081 recommended. Cross-listed with: FOR 146, NR 146.

Credits: 3.00

**GEOG 190 - International Field Studies**

Field course abroad (e.g. South Africa or England.) Intensive study of the geography of a country or region, with attention to related issues. Prerequisite: Three hours in Geography.

Credits: 3.00

**GEOG 191 - Geography Internship**

Supervised internship in applied geography working with a local public agency or private firm. Individually arranged. Prerequisite: Junior/Senior standing; department permission.

Credits: 4.00

**GEOG 192 - Vermont Field Studies**

Field course on a geographical theme (e.g. physical or regional geography) in the Burlington area or surrounding region. Prerequisite: Three hours in Geography. Cross-listed with: VS 192.

Credits: 3.00

**GEOG 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**GEOG 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**GEOG 197 - Readings & Research**

Credits: 3.00

**GEOG 198 - Readings & Research**

Credits: 3.00

**GEOG 202 - Research Methods**

A systematic overview of the art and science of geographical inquiry. Examination of key research and methodological approaches in the discipline. Prerequisite: Junior/Senior standing; nine hours in Geography.

Credits: 3.00

**GEOG 203 - Contemp Geog Thought Context**

A survey of paradigms and issues in contemporary geography. Attention paid to the social and historical contexts of geographic thought. Prerequisite: Nine hours in Geography or Instructor permission.

Credits: 3.00

**GEOG 204 - Spatial Analysis**

Analysis of spatial pattern and interaction through quantitative models; introduction to measurement, sampling, and covariation in a spatial framework. Prerequisite: Senior/Graduate standing; at least nine hours in Geography, or Instructor permission.

Credits: 3.00

**GEOG 245 - Adv Top:Human Env Interactions**

Advanced offerings on various manifestations of social-environmental relationships. Possible topics include sustainable development, environmental justice, and urban ecology. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

Credits: 3.00

**GEOG 246 - Adv Top:Climate&Water Resource**

Advanced analysis of regional climatology, hydroclimatological hazards, or fluvial geomorphology. Special topics might include droughts, severe weather, floods and floodplain management, mountain and lowland rivers. Prerequisites: Senior or graduate standing with nine hours in Geography, or instructor permission.

Credits: 3.00

**GEOG 272 - Adv Top:Space, Power, Identity**

Advanced offerings on topics related to the spatial regulation and geographic construction of social identity, paying particular attention to race, gender and sexuality. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

Credits: 3.00

**GEOG 273 - Adv Top:Political Econ&Ecology**

Advanced offerings in political ecology and political economy, particularly at global and regional scales. Possible topics include Third World economic restructuring, globalization, international environmental movements. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

Credits: 3.00

**GEOG 274 - Adv Top:Critical Urban&Soc Geo**

Advanced offerings in urban and critical social geography. Possible topics include social justice and the city, human rights, geographies of social control.

Prerequisite: Senior/Graduate standing with nine hours in Geography, or Instructor permission.

Credits: 3.00

**GEOG 281 - Adv Topic:GIS & Remote Sensing**

Advanced offerings in GIS or remote sensing focusing on landscape interpretation for decision-making practices. Incorporation of applications from Vermont public and private sectors. Prerequisites: Senior or Graduate standing with nine hours in Geography; or Instructor permission.

Credits: 3.00

**GEOG 295 - Advanced Special Topics**

See schedule of courses for specific titles.

Credits: 4.00

**GEOG 296 - Advanced Special Topics**

See schedule of courses for specific titles.

Credits: 3.00

**GEOG 297 - Readings & Research**

Credits: 4.00

**GEOG 298 - Readings & Research**

Credits: 3.00

**GEOG 300 - Graduate Tutorial**

Readings and research on topics arranged individually by students with instructors; attendance in appropriate undergraduate courses may be required.

Prerequisite: Instructor permission.

Credits: 3.00

**GEOG 391 - Master's Thesis Research**

Credits: 1.00 to 18.00

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## Courses in Geology (GEOL)

### **GEOL 001 - Earth System Science**

An introduction to the earth as a closed system, the cycling of materials and energy within it, and how it interacts with the hydrosphere and atmosphere.

Credits: 4.00

### **GEOL 003 - Fire & Ice**

Introduction to volcanoes/plate tectonics ("fire") and glaciers/climate change ("ice") using lectures, slides, discussion, and field trips. Considers Vermont and world-wide geological examples.

Credits: 3.00

### **GEOL 005 - Mt - Lake:Geol Lake Chmpln Bsn**

Scientific principles applied to the geology and geologic history of the Lake Champlain Basin.

Credits: 4.00

### **GEOL 007 - Earth Hazards**

Understand geological and societal causes of death and destruction by earthquakes, landslides, floods, volcanoes, storms, and avalanches around the world.

Credits: 3.00

### **GEOL 010 - Geological Oceanography**

Characteristics and development of the oceans, their basins and shorelines, including plate tectonic history and basic physical, chemical, and biological processes. Prerequisite: GEOL 001 or introductory science course.

Credits: 3.00

### **GEOL 053 - Planetary Geology**

Characterizes the differences and similarities between the Terrestrial and Jovian Planets, the dynamic processes that shape our home planet and compares the geologic Introductory science course or ASTR 005. processes active in our Solar System. Prerequisites:

Credits: 3.00

**GEOL 055 - Environmental Geology**

Introduction to geologic processes and materials pertinent to environmental problems: ground water movement, supply, and contamination, waste disposal, flooding, subsidence, and landslides. Local field trips. Designed for intended Natural Science majors.

Credits: 4.00

**GEOL 062 - Earth Env & Life Through Time**

This course presents an overview of how the Earth has changed over time and how this has influenced the history of life. Prerequisites: GEOL 1,3,4,5, or 55.

Credits: 4.00

**GEOL 095 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**GEOL 096 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**GEOL 101 - Field Geology**

Geological evolution of western Vermont as seen through actual field mapping in the Burlington area. Specifically designed for sophomores majoring or minoring in Geology or related sciences. Prerequisite: GEOL 001, GEOL 055, or Instructor permission.

Credits: 4.00

**GEOL 110 - Earth Materials**

Introduction to the major rocks and rock-forming minerals and their relationship to formation/depositional environments. Pre/co-requisite: Introductory Geology course: GEOL 001, GEOL 055 or GEOL 095.

Credits: 4.00

**GEOL 112 - Mineralogy&Optic Crystallgrphy**

Credits: 2.00

**GEOL 116 - Glacial Geology**

Examines the Dynamics of glacier flow and landforms glaciers produce. Lectures, labs, and field trips emphasis processes in both modern and ancient glaciers.

Prerequisites: GEOL 1,5, or 55.

Credits: 4.00

**GEOL 131 - Igneous/Metamorph/Sedmnt Petro**

(3-3) Description, classification, and genesis of igneous and metamorphic rocks. Introduction to petrogenetic models of the earth's crust and mantle. Prerequisite: GEOL 112.

Credits: 4.00

**GEOL 151 - Geomorphology**

Examines, using lectures, labs, and field-based independent study research projects, processes which change Earth's surface and the history of landscape development. Considers fundamental geologic constraints on environmental problems. Prerequisite: GEOL 001 OR GEOL 055. Cross-listed with: GEOG 144.

Credits: 4.00

**GEOL 153 - Strat & Sedimentary Petrology**

Properties of physical sedimentation, principles of stratigraphy and basin analysis, and comparison of modern and ancient environments. Lab includes description and classification of sedimentary rocks. Prerequisite: 131.

Credits: 4.00

**GEOL 155 - Fluvial Geology**

A discussion of fluvial systems including hydrology, sedimentation, geomorphology, water chemistry, and human impacts. Prerequisite: Instructor permission.

Credits: 4.00

**GEOL 172 - Regional Geology**

Discussion of the geology of a selected region of North America. A four-week summer field trip to the area in question. Prerequisites: one other Geology course or permission.

Credits: 4.00

**GEOL 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**GEOL 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**GEOL 197 - Research in Geology**

Supervised research and readings in a selected field of geology. Students from allied sciences, Mathematics, and Engineering may elect a research problem that combines their major field of study and geology. Prerequisite: Department permission.

Credits: 3.00

**GEOL 198 - Research in Geology**

Supervised research and readings in a selected field of geology. Students from allied sciences, mathematics, and engineering may elect a research problem that combines their major field of study and Geology. Prerequisite: Department permission.

Credits: 3.00

**GEOL 201 - Advanced Field Geology**

Advanced field mapping techniques, analysis of field data, preparation of geological maps and reports. Prerequisite: GEOL 260.

Credits: 3.00

**GEOL 210 - Systems Dynamics & Earth Sci**

Analysis of generic systems with examples from physical and natural sciences. Geological systems emphasized. Laboratories involve computer analysis of system structure and behavior over time. Prerequisites: A major or minor in science, mathematics, natural resources, engineering, or permission of instructor. UG only.

Credits: 3.00

**GEOL 217 - Vermont Field Geology**

Field observations of rocks and surficial materials across northern Vermont are utilized to decipher the region's geologic history. Reading complement field work. Pre/co-requisites: Graduate student standing.

Credits: 4.00

**GEOL 230 - Adv Igneous&Metamorphic Petrol**

Application of phase equilibria, elemental and isotopic data, and textural interpretations to problems in igneous and metamorphic petrology, stressing modern theories of tectonics and petrogenesis. Prerequisite: GEOL 131.

Credits: 4.00

**GEOL 233 - Environmental Isotope Geochem**

Course focuses on stable isotope geochemistry of low temperature processes occurring on and near the earth surface through lecture, laboratory, and seminar. Prerequisite: Introductory Chemistry.

Credits: 3.00

**GEOL 234 - Global Biogeochemical Cycles**

Integrated perspective on biogeochemical cycles describing the transformation and movement of chemical substances in the natural environment, as seen on the global context. Prerequisite: Introductory Chemistry.

Credits: 3.00

**GEOL 235 - Geochemistry of Natural Waters**

Basic concepts of chemical equilibria applied to natural waters, including thermodynamics, pH, oxidation-reduction, weathering, and solution equilibria.

Prerequisites: Chemistry 1, 2.

Credits: 3.00

**GEOL 240 - Tectonics**

Applications of igneous and metamorphic petrology to problems in tectonophysics, including petrochemistry of the earth's crust and upper mantle and the internal structure of orogenic belts. Prerequisite: GEOL 101, GEOL 110.

Credits: 3.00

**GEOL 241 - Clastic Depositional Systems**

Selected readings and field studies emphasizing the interpretation of clastic sedimentary deposits including transportation, processes of sedimentation, and geomorphology of ancient and recent sedimentary environments. Prerequisite: GEOL 153. Alternate years.

Credits: 3.00

**GEOL 243 - Clastic Petrology Laboratory**

Study of clastic rocks in hand specimen and thin section. Prerequisite: Concurrent enrollment in GEOL 241.

Credits: 1.00

**GEOL 245 - Carbonate Depositional Environ**

Paleoenvironmental analysis of carbonate rocks including selected readings, field investigations, and petrographic studies. Prerequisite: GEOL 153. Alternate years.

Credits: 3.00

**GEOL 255 - Geohydrology**

Field-based projects address hydrologic processes in geological context; precipitation, runoff, ground water flow, river behavior, and hillslope stability. Stresses data analysis, writing, and practical approaches to water-related environmental problems. Prerequisite: Major in science or engineering or permission.

Credits: 4.00

**GEOL 260 - Structural Geology**

Examines processes and problems concerning the mechanical behavior of the Earth's crust and surface. Includes rock deformation stress, strain, and the interpretation of geological structures. Prerequisite: GEOL 101, GEOL 110, PHYS 011, or Instructor permission.

Credits: 4.00

**GEOL 272 - Regional Geology**

Discussion of the geology of a selected region of North America; a four-week



summer field trip to the area in question. Prerequisite: GEOL 101, GEOL 110, or equivalent.

Credits: 4.00

**GEOL 273 - Geology of the Appalachians**

Origin of mountain belts; the Appalachian mountain system discussed in terms of tectonics and geologic processes active in modern continental margins.

Prerequisite: GEOL 101, GEOL 110, or Instructor permission.

Credits: 3.00

**GEOL 278 - Principles of Aquatic Systems**

See NR 278.

Credits: 3.00

**GEOL 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**GEOL 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**GEOL 301 - Intro to Graduate Studies**

For first year graduate students in Geology. Includes orientation to faculty, abstract and grant writing, comprehensive exams, talk preparation and scientific method in the Geosciences. Prerequisite: Graduate standing in Geology.

Credits: 1.00

**GEOL 302 - Intro Graduate Studies Geology**

For first year graduate students in Geology. Includes orientation to faculty, abstract and grant writing, comprehensive exams, talk preparation and scientific method in the Geosciences. Prerequisite: Graduate standing in Geology.

Credits: 1.00

**GEOL 351 - Surface Proc & Quaternary Geol**

Discussion and critique of scientific literature pertaining to Earth surface history and processes. Critical examination of author's methods, data, and assumptions. Student-led discussions. Specific focus changes yearly. Prerequisites: Graduate standing in science, natural resources or engineering, or Instructor permission.

Credits: 1.00 to 3.00

**GEOL 352 - Environmental Geology Seminar**

Geologic constraints on environmental problems including: groundwater flow, contaminant transport, slope stability, climate change, sedimentation, deforestation and earthquake hazards. Extensive readings and student-led discussions.

Prerequisites: Graduate standing in science, natural resources, or engineering, or

Instructor permission.

Credits: 1.00 to 3.00

**GEOL 353 - Crit Writing Earth&Env Science**

Review of manuscripts and grants prepared by UVM students and faculty. Learn to write better by presenting writing, grammar and logic critiques in a seminar format.

Prerequisite: Instructor permission.

Credits: 1.00 to 2.00

**GEOL 360 - Structural Anyl Deformed Rocks**

Mechanisms of rock deformation; fracture phenomena and analysis; fault zone characteristics; fold generation analysis. Stress and strain interpretation of deformational features in rocks and minerals. Field work. Prerequisite: GEOL 260 or equivalent.

Credits: 4.00

**GEOL 361 - Advanced Structural Geology**

Selected topics in analytical structural geology. Prerequisite: GEOL 260 or equivalent.

Credits: 3.00

**GEOL 371 - Advanced Readings**

Readings and research problems intended to contribute to the program of graduate students in areas of geology for which formal courses are not available.

Prerequisite: Graduate standing in Geology.

Credits: 3.00

**GEOL 391 - Master's Thesis Research**

Credits: 1.00 to 9.00



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### Courses in German (GERM)

**GERM 001 - Elementary**

An introduction to all aspects of contemporary standard German: Speaking, listening, reading, writing. Cultural components include topics such as: music, art, literature, and current events. No previous knowledge of German needed for 1.

Credits: 4.00

**GERM 002 - Elementary**

An introduction to all aspects of contemporary standard German: Speaking, listening, reading, writing. Cultural components include topics such as: music, art, literature, and current events. Prerequisite: GERM 001 or equivalent.

Credits: 4.00

**GERM 051 - Intermediate**

Comprehensive review of German grammar, vocabulary-building skills, development of reading strategies and compositional abilities, study of contemporary German culture through literary texts. Prerequisite: 1, 2 or equivalent for 51.

Credits: 3.00

**GERM 052 - Intermediate**

Comprehensive review of German grammar, vocabulary-building skills, development of reading strategies and compositional abilities, study of contemporary German culture through literary texts. Prerequisite: 1, 2 or equivalent for 51.

Credits: 3.00

**GERM 095 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**GERM 096 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**GERM 103 - Composition & Conversation**

An intensive language course concentrating on more advanced syntax, vocabulary building, and idiomatic expression through written compositions, translations, and oral presentations. Prerequisite: GERM 052 or equivalent.

Credits: 3.00

**GERM 121 - Culture & Civilization to 1900**

Historical, intellectual, and artistic developments of German culture and civilization from Roman times through the 19th century, stressing written and oral work.

Prerequisite: GERM 052 or equivalent.

Credits: 3.00

**GERM 122 - 20th C Culture & Civilization**

Social, cultural, and political developments in the German-speaking countries since 1900, stressing written and oral components. Prerequisite: GERM 052 or equivalent.

Credits: 3.00

**GERM 155 - Survey of German Lit to 1830**

Selected prose, drama, and poetry from Medieval through Baroque literature, in-depth readings and analyses of major works by Lessing, Goethe, Schiller, and the Romantics. Prerequisite: 52 or equivalent.

Credits: 3.00

**GERM 156 - Survey of German Lit from 1830**

Major literary and intellectual movements and figures of the period through in-depth analyses of works by Buchner, Mann, Kafka, and Brecht. Prerequisite: 52 or equivalent.

Credits: 3.00

**GERM 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**GERM 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**GERM 197 - Readings & Research**

Credits: 3.00

**GERM 198 - Readings & Research**

Credits: 1.00 to 6.00

### **GERM 202 - Expository Writing**

Improvement of writing skills through work with authentic texts from different content areas (literature, media, science, business). Emphasis on stylistic development and sophisticated vocabulary-building. Prerequisite: Two 100-level courses.

Credits: 3.00

### **GERM 213 - History of the German Language**

Historical and linguistic development of the German language from Indo-European to the present, emphasizing sound shifts, the 16th century, and the modern age.

Prerequisite: GERM 155 or GERM 156; one other 100-level course.

Credits: 3.00

### **GERM 214 - Middle Ages**

Analysis and discussion of several "Minnesang" poets (esp. Walther and Neidhart), the Nibelungenlied, the courtly epics Erec, Parzival, and Tristan, and the satirical epic Helmbrecht. Prerequisite: GERM 155 or GERM 156; one other 100-level course.

Credits: 3.00

### **GERM 225 - Goethe**

Study of Goethe's accomplishments in poetry, drama, and the novel during major phases of his literary career: "Sturm und Drang," Classicism, and Romanticism.

Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

### **GERM 226 - Schiller**

Major attention will be paid to Schiller's development as a dramatist (from Die Rauber to Wilhelm Tell) as well as to his contributions to German Classicism.

Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

### **GERM 237 - 19th-Century Prose**

Literary and stylistic analysis of prose works by Tieck, Kleist, Stifter, Gotthelf, Droste-Hulshoff, Storm, Keller, and Hauptmann with emphasis on Romanticism, Poetic Realism, and Naturalism. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

### **GERM 238 - 19th Century Drama**

Analysis of plays by Tieck, Kotzebue, Kleist, Buchner, Grillparzer, Nestroy, Hebbel, and Hauptmann. Consideration of traditional Viennese "Volks theater" and the period's major literary movements. Prerequisite: GERM 155 or GERM 156 and one other 100-level course

Credits: 3.00

**GERM 247 - German Lit from 1890 to 1945**

Naturalism, Symbolism, Expressionism and subsequent trends through readings of authors such as Hauptmann, Rilke, Kaiser, Kafka, Mann, and Brecht.

Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 248 - Contemporary German Literature**

Literary movements and their major representatives from 1945 to the present, including relevant sociopolitical, intellectual, and cultural aspects. Prerequisite:

GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 251 - German Folklore**

Verbal folklore genres (fairy tales, legends, folk songs, and proverbs) treated in their relation to literature, mass media, and popular culture. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 263 - German Romanticism**

Study of major works by authors such as Friedrich Schlegel, Novalis, Brentano, Hoffmann, and Eichendorff in their literary, artistic, philosophical, and sociopolitical contexts. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 271 - Proverbs**

Diachronic and synchronic survey of German proverbs, proverbial expressions, and wellerisms, emphasizing their use and function in literature, art, mass media, advertisements, and oral communication. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 273 - German Intellectual Movements**

A survey of developments in art, music, philosophy, and social thought from the Enlightenment to 1945, with particular attention to their impact on German literature. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 275 - Fin-de-Siecle**

Prevalent literary and intellectual movements at the turn of the 20th century in their historical, sociopolitical, and cultural contexts. Study of Nietzsche, Freud, Rilke, Hofmannsthal, Schnitzler, and Mann. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 276 - Brecht & the Modern Drama**

Brecht's revolutionary concept of "epic theatre" in theory and practice and its influence on subsequent dramatists, including Durrenmatt, Frisch, Handke, Hochhuth, Muller, and Weiss. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 278 - GDR Fiction**

GDR fiction in its literary, historical, and social contexts, with reference to major developments in the GDR from 1949-89. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 279 - German Short Story after 1945**

Aesthetic and thematic evolution of the short story and its relation to historical, political, and cultural developments from 1945 to the present. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 281 - Sem in Lit Genre,Period,Theme**

Study of a literary genre, period, or theme through close readings of representative texts supplemented by lectures and reports on sociocultural context. May be repeated. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 282 - Sem on Particular Author**

Study of author(s) through close readings of representative texts supplemented by lectures and reports on the works' socio-cultural context. May be repeated. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.00

**GERM 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**GERM 296 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**GERM 391 - Master's Thesis Research**

Credits: 6.00



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## Courses in Graduate (GRAD)

### **GRAD 385 - Master's Language Examination**

Required for all master's degree students during semester in which examination will be completed.

Credits: 0.00

### **GRAD 395 - Advanced Special Topics**

Credits: 1.00

### **GRAD 397 - Master's Comprehensive Exam**

Required for all master's degree students during semester in which comprehensive will be completed.

Credits: 0.00

### **GRAD 399 - Thesis Defense**

Required for all master's degree candidates during semester in which defense is scheduled.

Credits: 0.00

### **GRAD 485 - Doctoral Language Examination**

Required for all doctoral degree students during semester in which examination will be completed.

Credits: 0.00

### **GRAD 497 - Doctoral Comprehensive Exam**

Required for all doctoral degree students during semester in which comprehensive will be completed.

Credits: 0.00

### **GRAD 499 - Dissertation Defense**



Required for all doctoral degree candidates during semester in which defense is scheduled.

Credits: 0.00

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## Courses in Graduate Medical (GRMD)

### **GRMD 353 - Medical Cell & Molec Biology**

Fundamental vocabulary, concepts, and methods of molecular genetics, cell physiology, biochemistry and metabolism including cell-cell and cell-environment communication, cell proliferation and cell death. Pre/co-requisite: Graduate standing; permission of the Instructor; six credits coursework, plus two credits lab in Biology, general chemistry, organic chemistry and Physics.

Credits: 3.00

### **GRMD 354 - Medical Human Struc & Fncion**

Combination of gross anatomy, histology, embryology, physiology and medical imaging to present an integrated overview of the human body. Pre/co-requisites: Graduate standing; Instructor permission; six credits coursework, plus two credits lab in Biology, general chemistry, organic chemistry and Physics; graduate coursework in Cell Biology or Biochemistry.

Credits: 6.00

### **GRMD 355 - Medical Attacks & Defenses**

Principles of hematology, immunology, microbiology, toxicology, pathology, pharmacology, and neoplasia as a foundation to pathophysiology and therapeutics. Pre/co-requisite: Graduate standing; Instructor permission; six credits coursework plus two credits lab in Biology, general chemistry, organic chemistry and Physics; graduate coursework in Cell Biology or Biochemistry and Anatomy & Physiology.

Credits: 4.00

### **GRMD 356 - Medical Nutr, Metab, & GI Syst**

Organizes studies in nutrition, organ systems metabolism and the gastrointestinal and endocrine systems through integrated lessons in cell biology, biochemistry, normal and pathologic anatomy, pharmacology, physiology, pathophysiology and

microbiology. Pre/co-requisite: Graduate standing; permission of the Instructor; six credits coursework, plus two credits lab in Biology, Anatomy & Physiology, and an introduction to immunology, microbiology, toxicology, pathology and pharmacology.

Credits: 5.00

### **GRMD 357 - Medical Neural Science**

Organize study of the human nervous and behavioral system through lessons that integrate cell metabolism, endocrinology, normal and pathologic anatomy, pharmacology, physiology, pathophysiology and psychopathology. Pre/co-requisite: Graduate standing; permission of the Instructor; six credits coursework plus two credits lab in Biology, general chemistry, organic chemistry and Physics; Graduate coursework in Cell biology or Biochemistry, human anatomy & physiology, and an introduction to immunology, microbiology, toxicology, pathology and pharmacology.

Credits: 6.00

### **GRMD 358 - Medical Connections**

Introduction to musculoskeletal and integumentary systems that integrates cell metabolism, endocrinology, normal and pathologic anatomy, physiology and pathophysiology, and pharmacology. Pre/co-requisite: Graduate standing; Instructor permission; six credits coursework plus two credits lab in biology, general chemistry, organic chemistry and physics; graduate coursework in cell biology or biochemistry, human anatomy and physiology, and an introduction to immunology, microbiology, toxicology, pathology, and pharmacology.

Credits: 1.00

### **GRMD 359 - Medical Cardio,Resp,Renal Syst**

Organizes studies in the cardiovascular, respiratory and renal system through lessons that integrate cell metabolism, endocrinology, normal and pathologic anatomy, pharmacology, physiology and pathophysiology. Pre/co-requisite: graduate standing; permission of the Instructor; six credits coursework plus two credits lab in biology or biochemistry, human anatomy and physiology, and an introduction to immunology, microbiology, toxicology, pathology and pharmacology.

Credits: 6.00

### **GRMD 360 - Medical Generations**

Organizes studies in reproduction, development and aging through lessons that integrate behavioral development, cell and molecular biology, endocrinology, normal and pathologic anatomy, pharmacology, physiology and pathophysiology. Pre/co-requisite: Graduate standing; permission of the Instructor; six credits coursework plus two credits lab in biology, general chemistry, organic chemistry and physics; graduate coursework in cell biology or biochemistry, human anatomy and physiology, and an introduction to immunology, microbiology, toxicology, pathology and pharmacology.

Credits: 5.00

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## Courses in Graduate Nursing (GRNU)

### **GRNU 296 - Special Topics**

Topics of interest to graduate nursing which are based on theory, research or advanced practice. Course content will deal with topics beyond the scope of existing formal courses or thesis research. Prerequisite: Instructor permission.

Credits: 3.00

### **GRNU 300 - Research:Adv Practice Nursing**

This course focuses on understanding the research process and methodologies appropriate to nursing. Emphasis is on the synthesis of the body of health-related research to initiate change and improve nursing practice. An underlying theme is the role of the advanced-practice nurse for incorporating evidence-based practice. Prerequisite: Undergraduate Statistics.

Credits: 3.00

### **GRNU 301 - Adv Prac Nursing:Prof Dev&Soc**

In this course, the role dimensions of advanced practice nursing are analyzed. The advanced practice nursing role in the context of a dynamic, complex health care system is examined. The process of role development is explored and professional and role resocialization is initiated.

Credits: 3.00

### **GRNU 302 - Professional Nursing Issues**

Issues affecting nursing practice provide framework for examination of and socialization into professional nursing. The historical, legal, ethical, cultural, structural, and economic aspects of nursing practice will be explored. Prerequisite: Admission to MEPN program. Co-requisite: GRNU 311, GRNU 322.

Credits: 2.00

### **GRNU 303 - Drug Therapy & Nursing Prac**

Pharmacology and pharmacotherapeutics will be applied to nursing practice with a focus on pharmacodynamics, pharmacokinetics, indications, adverse effect, drug interactions, safe administration and patient education. Prerequisites: GRNU 302, GRNU 311, GRNU 322;Corequisites: GRNU 312, GRNU 314, GRNU 316.

Credits: 3.00

#### **GRNU 304 - Drug Therapy:Select Populatns**

A focus on key issues associated with drug therapy for children, the elderly, individuals with mental health disorders, and people with chronic disease.

Prerequisite: GRNU 303, GRNU 312, GRNU 314, GRNU 316; Co-requisite: GRNU 313, GRNU 317, GRNU 318, GRNU 319, GRNU 321, GRNU 329.

Credits: 1.00

#### **GRNU 305 - Pathophysiology**

Focus on physiologic and pathophysiologic aspects of disease. Emphasis on biochemical mechanisms associated with selected disease states which occur across the lifespan. Prerequisite: RN license

Credits: 3.00

#### **GRNU 306 - Pharmacotherapeutics I**

Indepth examination of the pharmacokinetics and pharmacodynamics of select drugs. Attention to and ethical and legal standards of prescriptive authority. First section of a 2-semester course. Prerequisites: 305 strongly recommended.

Credits: 3.00

#### **GRNU 307 - Pharmacotherapeutics II**

Continuation of GRNU 306. Indepth examination of the pharmacokinetics and pharmacodynamics of select drugs. Attention to ethical and legal standards of prescriptive authority. Prerequisite: GRNU 306.

Credits: 2.00

#### **GRNU 308 - Family Thry Perspectives:APRNs**

Focus on assessment of family health within the context of culture and development across the lifespan. Socioeconomic, demographic, and political influences will be examined. Prerequisite: GRNU 310.

Credits: 3.00

#### **GRNU 309 - Adv Prac Nsg Psychophrm**

This course prepares Advance Practice Nurses to prescribe psychopharmacologic medications as a facet of their interdisciplinary role. Topics examined in depth include: psychopharmacologic principles, psychiatric diagnoses, advanced practice nursing interventions, legal and ethical implications of treatment. Case study analysis is used to apply the nursing process.

Credits: 3.00

#### **GRNU 310 - Theoretical Foundation:Nursing**

Analysis and exploration of the concepts and theories in nursing, and those relevant to advanced practice nursing with emphasis on the relationship between theory and practice. Pre/co-requisite: RN license.

Credits: 3.00

**GRNU 311 - Clinical Nutrition and Nursing**

Self-directed learning module focused on role of nutrition in health, and management of health conditions with emphasis on clinical implications of nutritional imbalances. Prerequisite: Admission to MEPN program. Co-requisite: GRNU 302, GRNU 322.

Credits: 1.50

**GRNU 312 - Biomedical Science I**

Human physiology and principles of biochemistry provide foundation for understanding genetic and acquired pathophysiological conditions in the cardiovascular, endocrine, gastrointestinal, nervous, renal, and respiratory systems. Prerequisites: GRNU 302, GRNU 311, GRNU 322. Co-requisites: GRNU 303, GRNU 314, GRNU 316.

Credits: 4.00

**GRNU 314 - Sci of Nsg:Adults & Elders**

Identification and treatment of human responses to pathophysiological problems in adults with acute, chronic, or terminal conditions, with principles of general acute nursing practice emphasized. Prerequisites: GRNU 302, GRNU 311, GRNU 322. Co-requisite: GRNU 303, GRNU 312, GRNU 316.

Credits: 4.00

**GRNU 315 - Pol, Org & Fin Health Care**

This core course provides an overview of health care policies, organizational structures, and financing systems germane to advanced nursing practice nursing. These concepts will be examined from economic, social, ethical, political, and global perspectives. Contemporary health care organizations and policies will be analyzed with respect to concepts and principles of change theory, ethical decision making, policy processes and analysis. Financing of health care systems, with emphasis on the advanced practice nursing role, will also be examined. Instructor permission.

Credits: 3.00

**GRNU 316 - Practicum:Adults & Elders**

An initial experience in the nursing lab will be followed with a supervised clinical nursing practicum of adults with acute, chronic, or terminal conditions. Prerequisites: GRNU 302, GRNU 311, GRNU 322;Corequisites: GRNU 303, GRNU 312, GRNU 314.

Credits: 6.00

**GRNU 317 - Sci of Nsg:Mental Health**

Theories of human behavior form the foundation for understanding mental health and acute and chronic mental illnesses. Focus on assessment, treatment, and nursing care. Prerequisites: GRNU 303, GRNU 312, GRNU 314, GRNU 316. Co-requisites: GRNU 304, GRNU 313, GRNU 318, GRNU 319, GRNU 321, GRNU 329.

Credits: 3.00

**GRNU 318 - Practicum: Mental Health**

Faculty guide students in practice settings to maximize exposure to all aspects of the nursing process with adults having selected psychiatric/mental health problems. Prerequisites: GRNU 303, GRNU 312, GRNU 314, GRNU 316. Co-requisites: GRNU 304, GRNU 313, GRNU 317, GRNU 319, GRNU 321, GRNU 329.

Credits: 2.00

**GRNU 319 - Sci of Nsg:Women & Newborns**

Focus on healthy maternal-newborn care, and promotion of wellness and family integrity during transition within a family-centered framework. Prerequisite: GRNU 303, GRNU 312 , GRNU 314, GRNU 316. Co-requisite: GRNU 304, GRNU 313, GRNU 317, GRNU 318, GRNU 321, GRNU 329.

Credits: 2.00

**GRNU 320 - Rsch: Appl of Qualitative Meth**

Study of purposes, methods, and strategies underlying historical and philosophical principles, and the implementation of qualitative research in nursing. Prerequisite: Instructor permission.

Credits: 3.00

**GRNU 321 - Practicum:Cmplx Nsg Care**

Precepted clinical practice in adult acute care. Students will focus on an area in which more depth is desired. Prerequisites: GRNU 303, GRNU 312, GRNU 314, GRNU 316. Co-requisites: GRNU 304, GRNU 313, GRNU 317, GRNU 318, GRNU 319, GRNU 329.

Credits: 2.50

**GRNU 322 - Human Structure and Function**

Self-directed learning module in basic Anatomy & Physiology. Reading, computer assisted instruction, online tutorials, and unit examinations enable foundational understanding of anatomy and physiology. Prerequisite: Admission to MEPN. Co-requisite: GRNU 302, GRNU 311.

Credits: 1.50

**GRNU 324 - Nurse as Administrator-Theory**

This course is a critical study of the knowledge and skills necessary to exercise effective leadership in contemporary and dynamic health care systems. Prerequisites: GRNU 310, GRNU 315, and GRNU 300 or GRNU 320.



Credits: 3.00

**GRNU 325 - Science of Nursing:Children**

Identification and treatment of human responses to pathophysiological problems in children with acute, chronic, or terminal conditions, with principles of acute nursing care for hospitalized children emphasized. Prerequisite: GRNU 304, GRNU 313, GRNU 317, GRNU 318, GRNU 319, GRNU 321, GRNU 329. Co-requisite: GRNU 327, GRNU 337, GRNU 338.

Credits: 3.00

**GRNU 326 - Nurse as Administrator-Pract**

Provide student with opportunity to integrate administrative theory, operations and research in a variety of settings. Practicum is structured according to the needs of the individual to provide knowledge, skills essential for the nurse administrator.

Pre/Co-requisite: GRNU 324

Credits: 3.00

**GRNU 327 - Practicum: Children**

Faculty guide students in practice settings to maximize exposure to all aspects of the nursing process with children having selected pathophysiological problems.

Prerequisite: GRNU 304, GRNU 313, GRNU 317, GRNU 318, GRNU 319, GRNU 321, GRNU 329. Co-requisite: GRNU 325, GRNU 337, GRNU 338.

Credits: 2.00

**GRNU 328 - Curriculum/Instruction Nursing**

Study of the development, implementation and evaluation of curricula in collegiate and nursing service education. Prerequisites: GRNU 310, GRNU 315, and GRNU 300 or GRNU 320.

Credits: 3.00

**GRNU 329 - Practicum:Women & Newborns**

Attention is focused on provision of nursing care to the expectant, laboring, or post-partum mother and to the newborn infant. Prerequisite: GRNU 303, GRNU 312, GRNU 314, GRNU 316. Co-requisite: GRNU 304, GRNU 313, GRNU 317, GRNU 318, GRNU 319, GRNU 321.

Credits: 1.25

**GRNU 330 - Thry&Pract/Adult Hlth NursingI**

Examination of concepts and theories essential to the assessment, diagnosis, and clinical decision making in adult health nursing. Class and clinical placement.

Pre/co-requisite: GRNU 300, GRNU 305, GRNU 310.

Credits: 6.00

**GRNU 331 - Thry&Pract/Adult Hlth Nurs II**

Analysis and evaluation of nursing concepts based upon theories, research and the practice of adult health nursing. Class and clinical placement. Prerequisite:

GRNU 330. Co-requisite: GRNU 315.

Credits: 5.00

**GRNU 332 - Thry&Pract/Adult Hlth Nurs III**

Application and synthesis of concepts relevant to advanced practice in adult health nursing, with emphasis on role development. Class and clinical placement.

Prerequisite: GRNU 331 and one elective.

Credits: 6.00

**GRNU 333 - Advanced Health Assessment**

Development of advanced knowledge and skills in systematic collection, organization, interpretation, and communication of data necessary for formulation of nursing and medical diagnoses. Lab fee required. Prerequisite: GRNU 305.

Credits: 3.00

**GRNU 337 - Community/Public Hlth Nsg**

Emphasis on the epidemiological and biostatistical indicators of population health, methods of community health analysis, structure and function of federal, state and local health organizations. Prerequisite: GRNU 304, GRNU 313, GRNU 317, GRNU 318, GRNU 319, GRNU 321, GRNU 329. Co-requisite: GRNU 325, GRNU 327, GRNU 338.

Credits: 2.00

**GRNU 338 - Practicum:Community Health**

Statewide population-focused community health experience involving needs assessment, program development, case management, health promotion, disease prevention, and protection strategies, with opportunities for interdisciplinary collaboration. Prerequisite: GRNU 304, GRNU 313, GRNU 317, GRNU 318, GRNU 319, GRNU 321, GRNU 329. Co-requisite: GRNU 325, GRNU 327, GRNU 337.

Credits: 2.00

**GRNU 340 - Thry&Pract Adv Comm/Pub Hlth I**

Overview of factors related to advanced community/ public health nursing with special emphasis on the determinants of health populations. Pre/co-requisite: GRNU 310, STAT 200.

Credits: 6.00

**GRNU 341 - Thry&Pract/Adv Com/Pub Hlth II**

Examines advanced practice roles in community/public health nursing related to strategies for change in the health of populations. Pre/co-requisite: GRNU 340.

Credits: 6.00

**GRNU 342 - Thry&Prac/Adv Com/Pub Hlth III**

Examines theoretic frameworks and strategies for evaluating the effectiveness of population -focused health services. Prerequisite: GRNU 341.

Credits: 6.00

### **GRNU 348 - Practicum in Nursing Education**

A practicum provides opportunity to investigate the roles and functions of the teacher in higher education and/or nursing service settings. Builds on the theory studied in GRNU 328 and focuses on the interactive nature of the teaching-learning process. Prerequisites: GRNU 330 or GRNU 340. Pre/co-requisite: GRNU 328.

Credits: 3.00

### **GRNU 350 - Thry/Pract Prim Care Children**

This course provides the theoretical basis for the primary care of children. An opportunity to apply and evaluate theories and research is provided in clinical settings (three credits of theory, two credits of clinical). Prerequisite: GRNU 305, GRNU 310, GRNU 333. Pre/co-requisite: GRNU 300, GRNU 306.

Credits: 5.00

### **GRNU 351 - Assess Hlth Maintenance Adults**

This course provides clinical opportunities for students to solidify knowledge of health assessment and initiate and evaluate interventions focusing on maintenance and enhancement of health of adults (1.5 credit clinical).

Prerequisite: GRNU 305, GRNU 333.

Credits: 1.50

### **GRNU 352 - Theory/Pract Prim Care Women**

Course provides the theoretical basis needed by FNPs for the primary care of women. Opportunities for application are provided through clinical practice (1.5 credit class, 1.5 credit clinical). Prerequisites: GRNU 306,310,351.

Pre/corequisites: GRNU 300, 307.

Credits: 3.00

### **GRNU 353 - Theory/Pract Prim Care Women**

Course provides the theoretical basis needed by ANPs for the primary care of women. Opportunities for application are provided through clinical practice (1 credit class, 1.5 credit clinical). Prerequisites: GRNU 306,310,351.

Pre/corequisites: GRNU 300, 307.

Credits: 2.50

### **GRNU 354 - Thry/Pract Prim Care Adult/Fam**

This course focuses on the assessment, diagnosis, management and evaluation of acute and chronic health conditions commonly encountered in primary care.(3 credits class, 2 credits clinical).Prerequisites: GRNU 308,352 (FNPs),353 (ANPs);Pre/corequisites: GRNU 307.

Credits: 5.00

### **GRNU 355 - Thry/Pract Prim Care Families**

Focus is on refinement of diagnostic and ethical judgements and therapeutic interventions used by FNPs in the provision of primary health care. Three credits class, five credits clinical. Prerequisite: GRNU 301, GRNU 315, GRNU 354, STAT 200.

Credits: 8.00

**GRNU 356 - Thry/Pract Prim Care Adults**

Focus is on refinement of diagnostic and ethical judgements and therapeutic interventions used by ANPs in the provision of primary health care. Three credits class, three credits clinical. Pre/corequisite: GRNU 301, GRNU 315, GRNU 354, GRNU 357, STAT 200.

Credits: 6.00

**GRNU 357 - Prct Cnsder in Care Older Adlt**

Focus on health and disease and associated care and treatment of older persons by the advanced practice nurse. Prerequisite: GRNU 310.

Credits: 3.00

**GRNU 358 - Primary Care Adults Practicum**

Students refine their assessment, diagnostic and management skills for a specific clinical specialty. Pre-requisites: GRNU 354, 353, 307. Pre/co-requisite: GRNU 357.

Credits: 2.00

**GRNU 359 - Fam Prim Care:Clin Integration**

Integration of the multidimensional aspects of the FNP role is the focus of this course. Pre/corequisites: GRNU 308, 350, 352.

Credits: 2.00

**GRNU 362 - Thry & Pract in Nurs Admin**

Credits: 6.00

**GRNU 370 - Adv Mntl Hlth-Psy Nsg I**

A bio-psycho-social-spiritual orientation provides the framework for this course, which serves as a theoretical and clinical introduction to the principles of advanced practice mental health nursing. Mental health and mental illness, recognized as internal experiences as well as familial, cultural and social experiences, are examined from a variety of theoretical backgrounds. Emphasis is placed on the use of relevant theory and research in preventing mental illness, as well as in assessing, diagnosing and treating individuals with mental health/psychiatric concerns. Prerequisites: GRNU 300, 310; Corequisites: GRNU 309

Credits: 6.00

**GRNU 371 - Adv Mntl Hlth-Psy Nsg II**

Emphasis is on the use of relevant theories and research in providing advanced practice mental health/psychiatric nursing services to child, adult, and older adult

clients within the context of family systems theory. Family therapy techniques will be explored and applied by students in clinical settings. The course also highlights assessment, diagnosis, and treatment strategies for clients in crisis. In addition to individual counseling and psychopharmacological interventions for children, adults, and older adult clients, specialized counseling techniques are addressed. Prereq: GRNU 370; Coreq: GRNU 301, 315.

Credits: 6.00

### **GRNU 372 - Thry & Pract in Nurs Educ**

Credits: 6.00

### **GRNU 373 - Adv Mntl Hlth-Psy Nsg III**

Emphasis is on the use of relevant theory and research in providing advanced practice mental health/psychiatric nursing interventions to couples and groups. This course will also address issues relating to special populations and circumstances, including: clients with mental illness and substance abuse disorders; bereaved clients; homeless clients; forensic clients; and medically ill clients. The advanced practice nursing roles of clinical consultant, liaison, case manager, program evaluator, and entrepreneur will be applied to mental health settings. Prereq: GRNU 371; Coreq: STAT 200.

Credits: 6.00

### **GRNU 380 - Nsg Mgt of Health Care Envrnmt**

Examination of roles and responsibilities of nurse managers and organizational systems theories. Strategies to improve clinical quality and organizational effectiveness in healthcare environments are explicated. Pre/co-requisite: GRNU 300, GRNU 301.

Credits: 3.00

### **GRNU 381 - Mgt of Professional Nsg Prctce**

Focus on the application of human resource management theories and processes to healthcare and role of nurse manager in developing and evaluating professional practice environments. Pre/co-requisite: GRNU 380.

Credits: 3.00

### **GRNU 382 - Fin Hlth Care Mgt/Strat Plnng**

Links among mission, strategic vision management, financial management, operations management, marketing and organizational outcomes are explicated as a basis for managerial decision making. Pre/co-requisite: GRNU 381.

Credits: 3.00

### **GRNU 385 - Clinical Management Practicum**

Opportunity to integrate management/administration theory, operations and research in a health care setting with a preceptor and benefit of biweekly seminars. Pre/co-requisite: GRNU 382.

Credits: 6.00

**GRNU 390 - Master's Project**

Self-designed clinical paper or innovative production pertinent to advanced nursing practice. Prerequisite: GRNU 300, GRNU 301, GRNU 310, GRNU 315. Co-requisite: GRAD 397.  
Credits: 3.00

**GRNU 391 - Master's Thesis Research**

Prerequisite: GRNU 300, GRNU 301, GRNU 310, GRNU 315; approval of thesis committee. Co-requisite: GRAD 397.  
Credits: 1.00 to 6.00

**GRNU 395 - Independent Study**

Individual work in graduate nursing with a base of theory, research, or advanced practice. Student in consultation with faculty sponsor devises objectives, plan of work, and evaluation for designated credit hours. Prerequisites: Permission of academic advisor and sponsoring faculty. Graduate nursing faculty as selected by student.  
Credits: 4.00

**GRNU 396 - Special Topics**

Topics of interest to graduate nursing which are based on theory, research or advanced practice. Course content will deal with topics beyond the scope of existing formal courses or thesis research. Prerequisite: Instructor permission.  
Credits: 6.00



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## Courses in Greek (GRK)

### GRK 001 - Elementary

Credits: 4.00

### GRK 002 - Elementary

Credits: 4.00

### GRK 003 - Self-Paced Greek

Fundamentals of Classical Greek through tutorial instruction, credit dependent on amount of material learned. May be repeated for credit. No credit with GRK 001 and GRK 002.

Credits: 8.00

### GRK 051 - Intermediate

Review of syntax. Readings from Plato, Herodotus, and Euripides.

Credits: 3.00

### GRK 052 - Intermediate

Review of syntax. Readings from Homer.

Credits: 3.00

### GRK 095 - Introductory Special Topics

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 4.00

### GRK 096 - Introductory Special Topics

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 4.00

**GRK 111 - Greek Prose Style**

Readings in literary prose analyzed stylistically and imitated in composition.  
Required of Greek majors.  
Credits: 3.00

**GRK 112 - Greek Prose Style**

Readings in literary prose analyzed stylistically and imitated in composition.  
Required of Greek majors.  
Credits: 3.00

**GRK 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.  
Credits: 3.00

**GRK 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.  
Credits: 3.00

**GRK 197 - Readings & Research**

Credits: 3.00

**GRK 198 - Readings & Research**

Credits: 3.00

**GRK 201 - Greek Orators**

Selected speeches of Lysias and Demosthenes. B. Saylor Rodgers. Alternate years, as needed.  
Credits: 3.00

**GRK 202 - Greek Comedy**

Two plays of Aristophanes. Alternate years, as needed.  
Credits: 3.00

**GRK 203 - Greek Historians**

Thucydides, Books I and II; selections from Herodotus and Xenophon's Hellenica. Alternate years, as needed.  
Credits: 3.00

**GRK 204 - Greek Tragedy**

Sophocles' Antigone, and Euripides' Medea, or two equivalent plays. Alternate years, as needed.  
Credits: 3.00

**GRK 205 - Greek Philosophers**



Dialogues of Plato with attention to language and dialectical method; Aristotle, Xenophon or Presocratic philosophers may be read. Alternate years, as needed.

Credits: 3.00

**GRK 206 - Greek Epic**

Reading in the Iliad and Odyssey. Problems of epic composition and language together with mythological and historical background. Alternate years, as needed.

Credits: 3.00

**GRK 227 - Greek Lyric Poetry**

A study of early Greek personal, elegiac, and choral poetry from Archilochus to Pindar, including Sappho and Alcaeus, Simonides and Bacchylides. Prerequisites: Two years of college Greek or equivalent. Alternate years, as needed.

Credits: 3.00

**GRK 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**GRK 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

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## Courses in Greek & Latin (GKLT)

### **GKLT 295 - Special Topics**

UG only.

Credits: 1.00 to 3.00

### **GKLT 300 - Proseminar**

Introduction to philology. Students will normally take this their first semester.

Credits: 3.00

### **GKLT 381 - Seminar**

Intensive study at the graduate level of Greek and Latin authors not read in the candidate's undergraduate program.

Credits: 3.00

### **GKLT 391 - Master's Thesis Research**

Credits: 5.00

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## Courses in HELiX (HLX)

### HLX 095 - Introductory Special Topics

See schedule of courses for specific titles. Cross-listings: Bio 95, 96.

Credits: 1.00



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## Courses in Health Education (EDHE)

### EDHE 046 - Personal Health

Concepts of personal health related to problems of daily living. Mental health, sex education, nutrition and weight control, fatigue and relaxation, chronic and communicable disease, stimulants and depressants.

Credits: 3.00

### EDHE 150 - Sem: Health Educ

Research, discussion, and critical examination of selected topics and special issues in health not currently covered in existing courses. Prerequisite: Six hours in health education or Instructor permission. Variable credit, one to four hours.

Credits: 3.00

### EDHE 200 - Contemporary Issues

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.00

### EDHE 208 - School Health Programs

Organization of the total school health program. Problems and administration in the area of school environment, health services, health education, and school-community relationship. Prerequisite: EDHE 046 or equivalent.

Credits: 3.00

### EDHE 211 - Community Health Ed

Government and voluntary agencies' sociological, historical, educational, environmental, and medical influences. Role of community health educator in these influences and major American health concerns. Prerequisite: EDHE 046 or equivalent.

Credits: 3.00

**EDHE 220 - Stress Mgmt Hlth Professionals**

Physiological, psychological, and sociological aspects of stress. Theory, practices, teaching techniques, and application relevant to teaching students and/or clients.

Prerequisite: EDHE 046 or equivalent.

Credits: 3.00

**EDHE 295 - Lab Experience in Educ**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 3.00

**EDHE 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1.00 to 12.00



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## Courses in Hebrew (HEBR)

### HEBR 001 - Elementary

The spoken language of everyday use with oral, aural, and written practice in speaking, reading, and comprehension.

Credits: 4.00

### HEBR 002 - Elementary

The spoken language of everyday use with oral, aural, and written practice in speaking, reading, and comprehension. Prerequisite: HEBR 001 or equivalent.

Credits: 4.00

### HEBR 051 - Intermediate

Reading, translation, and discussion in Hebrew of texts selected to show the development of Hebrew culture from Biblical times to the present. Prerequisites: 1, 2 or equivalent for 51; 51 for 52.

Credits: 3.00

### HEBR 052 - Intermediate

Reading, translation, and discussion in Hebrew of texts selected to show the development of Hebrew culture from Biblical times to the present. Prerequisites: 1, 2 or equivalent for 51; 51 for 52.

Credits: 3.00

### HEBR 095 - Special Topics

Credits: 3.00

### HEBR 096 - Special Topics

Credits: 3.00

### HEBR 195 - Int Special Topics

Credits: 3.00

**HEBR 196 - Intermediate Special Topics**

Credits: 3.00

**HEBR 197 - Readings & Research**

Credits: 3.00

**HEBR 198 - Readings & Research**

Credits: 3.00

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## Courses in Higher Education (EDHI)

### EDHI 055 - Special Topics

Credits: 3.00

### EDHI 200 - Contemporary Issues

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.00

### EDHI 202 - Human Rel in Univ Res Halls

Emphasis on human relations, group dynamics, advising models, student development theory, organizational development, and contemporary student issues in a residential environment. Prerequisite: Residence hall staff. (Not offered for graduate credit.)

Credits: 1.00

### EDHI 213 - Ldr:Theories,Styles&Realities

Introductory course in leadership development designed for student leaders. Includes study of planning, time management, organizational theory, communication skills, group process, team building. (Not offered for graduate credit.)

Credits: 2.00

### EDHI 214 - Adv Seminar in Leadership

Focuses on student leaders' experiences and how those experiences relate to activities beyond the University setting.

Credits: 2.00

### EDHI 297 - Special Topics



Learning modules may vary each semester as the need to address topics arises.  
Learning modules are five week classes.

Credits: 1.00

**EDHI 319 - Internship**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Instructor permission.

Credits: 1.00 to 6.00

**EDHI 332 - Adult Development & Education**

Critical examination of research on adult learners in higher education, development theory, and reentry issues facing older students. Analysis and application of proposals for new adult-oriented educational programs.

Credits: 3.00

**EDHI 360 - Higher Education in America**

Critical, contemporary overview of the American university. Implications of conflicting value philosophies for theory, practice of higher education.

Credits: 3.00

**EDHI 361 - The (Un)Changing Academy**

This course examines the historical trends that have shaped higher education and the tensions around stability and change affecting colleges and universities.

Prerequisite: Graduate standing.

Credits: 3.00

**EDHI 362 - The American College Student**

Examination of the diversity of college students today, and the developmental issues arising during the college experience.

Credits: 3.00

**EDHI 363 - Controversies of the Academy**

Critical and timely look at challenges confronting campus leaders. Implications for administrative practice shape seminar conversations of readings and case studies. Pre/co-requisite: Graduate standing or permission.

Credits: 3.00

**EDHI 375 - Cultural Pluralism Higher Ed**

This course explores cultural pluralism philosophies, racial identity development, racial incidences, and educational practices related to racism and diversity for implementation in higher education. Prerequisite: Graduate standing.

Credits: 3.00

**EDHI 380 - Professional Problems in Educ**

Designed to cover selected educational problems in depth. The major emphasis

will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.00

**EDHI 383 - Higher Ed Admin & Organization**

Introduction to concepts of administration and organization as applied to contemporary higher education setting. Characteristics of organizations, dynamic elements of administration, and theories and processes of change.

Credits: 3.00

**EDHI 385 - Student Affairs Profession**

Overview of the work of the student affairs profession, including philosophical base, historical development, current practices, and future trends. Prerequisite: Enrollment open only to Higher Education and Student Affairs students.

Credits: 3.00

**EDHI 387 - Seminar in Higher Education**

Designed for graduate students concentrating in programs in Higher Education. Analysis and discussion of current issues and problems in higher education.

Credits: 3.00

**EDHI 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 3.00

**EDHI 395 - Lab Experience in Education**

Practica internships, offered in various University departments and offices, enable students to integrate conceptual knowledge with professional practices.

Prerequisite: Graduate standing in HESA.

Credits: 2.00

**EDHI 396 - Capstone:Eth,Val&Mean/High Ed**

An applied student affairs seminar featuring ethical problem-solving, appreciation of religious pluralism, and approaches to facilitating the search for moral and spiritual meaning in the American university.

Credits: 3.00

**EDHI 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 3.00

**EDHI 491 - Doctoral Dissertation Research**

Credits: 1.00 to 12.00



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### Courses in Historic Preservation (HP)

**HP 200 - History American Architecture**

Study of architectural history to gain fluency in the stylistic terms so essential to historic preservation and to public support for conserving our architectural heritage. Prerequisite: Open to non-HP majors by permission.

Credits: 3.00

**HP 201 - History on the Land**

Identifying and interpreting evidence of the cultural forces - early settlement patterns, transportation, industry, agriculture, planning, conservation - that have shaped our land, buildings, towns and cities. Cross-listed with: HST 201.

Credits: 3.00

**HP 202 - Special Topics**

Courses are offered under this number in specialized areas of historic preservation through Continuing Education.

Credits: 3.00

**HP 204 - Historic Pres: Devlpmnt Econ**

Survey of economic, financial aspects of real estate development pertaining to preservation and adaptive use of historic buildings (market studies, pro-formas). Field trips. Actual proposal development for underutilized properties. Prerequisite: HP 201.

Credits: 3.00

**HP 205 - Historic Preservation Law**

Legal issues in conservation of the built environment. Basic legal techniques for protection of historic structures (historic districts, protective legislation, easements, covenants). Study of significant court decisions. Prerequisite: HP 201.

Credits: 3.00

**HP 206 - Rschg Historic Structure/Sites**

Methods for researching historic structures and sites using archival and physical evidence, deciphering archaic building technologies, and documenting structures through professional reports, architectural photography, measured drawings.

Prerequisite: HP majors or by permission.

Credits: 3.00

**HP 302 - Community Preservation Project**

Third-semester graduate students apply developed professional skills to actual community preservation problems. Projects include strategy development, securing and allocating funds, research, advocacy, and implementation.

Prerequisite: HP 301; Historic Preservation majors.

Credits: 3.00

**HP 303 - Grad Internship**

Participants will devote a semester to preservation within an appropriate institution or agency. Prerequisite: Historic Preservation majors only.

Credits: 3.00

**HP 304 - Contemp Preservation Plan&Pol**

This introduction to the professional practice of preservation planning traces the evolution of the historic preservation movement and examines contemporary preservation policy-making issues. Prerequisites: Historic Preservation Graduate majors only.

Credits: 3.00

**HP 305 - Hst Preservation Pract Methods**

This course introduces students to professional practice methods for conducting historic site and structures surveys. National Register nominations, and rehabilitation investment tax credit application projects. Prerequisites: Historic Preservation Graduate majors only.

Credits: 3.00

**HP 306 - Architectural Conservation I**

An examination of the physical properties of historic building materials, their deterioration mechanisms, and strategies for assessing conditions, conserving and rehabilitating historic resources. Lecture and lab. Prerequisites: Historic Preservation majors or by Instructor permission.

Credits: 3.00

**HP 307 - Architectural Conservation II**

A continuation of Architectural Conservation I, emphasizing an integrated examination of historic preservation through lectures, seminars, and field and laboratory research projects. Prerequisite: HP 306.

Credits: 3.00

**HP 391 - Master's Thesis Research**

Total of six hours required.

Credits: 6.00

**HP 395 - Advanced Special Topics**

Credit as arranged.

Credits: 3.00

**HP 397 - Special Readings & Research**

Credit as arranged.

Credits: 3.00



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## Courses in History (HST)

### HST 009 - Global History to 1500

The development and cross-fertilization of civilizations in Eurasia, Africa, and the Americas from about 3500 B.C.E. to A.D. 1500.

Credits: 3.00

### HST 010 - Global History Since 1500

Character, development, and emerging interdependence of the world's major civilizations since 1500.

Credits: 3.00

### HST 011 - History of the US

Survey from the pre-Revolutionary period to 1876.

Credits: 3.00

### HST 012 - History of the US

Survey from 1876 to the present.

Credits: 3.00

### HST 013 - Ideas in the Western Tradition

Great books of Western civilization in their historical setting. Greece and Rome. Prerequisites: Concurrent enrollment in English 27, 28; Religion 27, 28; Integrated Humanities Program. Crosslist: CLAS 013

Credits: 3.00

### HST 014 - Ideas in the Western Tradition

Great books of Western civilization in their historical setting. Renaissance to Existentialism. Credit will not be given for History 14 and History 25 or 26. Prerequisites: Concurrent enrollment in English 27, 28; Religion 27, 28; Integrated Humanities Program.

Credits: 3.00

**HST 019 - Western World Since 1945**

Comparative history of European nations and the United States since 1945.

Credits: 3.00

**HST 021 - Classical Greek Civilization**

Cross-listed with: CLAS 021.

Credits: 3.00

**HST 022 - Classical Roman Civilization**

Cross-listed with CLAS 023.

Credits: 3.00

**HST 023 - The Birth of Europe**

Survey of history of Western Europe from the late Roman Empire to the stabilization of Medieval Civilization around A.D. 1000.

Credits: 3.00

**HST 024 - High & Later Middle Ages**

The stabilization and expansion of Western European civilization in the Age of the Crusades; the crisis of the 14th century; 15th century recovery.

Credits: 3.00

**HST 025 - European Civilization to 1815**

Introduction to political, social, and intellectual movements which have shaped the foundations of Western civilization from the Renaissance to the French Revolution.

Credits: 3.00

**HST 026 - Europe 1815 - 1945**

Europe from the fall of Napoleon to the end of World War II, focusing on political, social, economic, and intellectual developments.

Credits: 3.00

**HST 027 - Modern Eastern Europe**

Eastern Europe since 1772, especially areas comprising present-day states of Bosnia-Herzegovina, Croatia, the Czech Republic, Hungary, Macedonia, Poland, Slovakia, Slovenia, and Yugoslavia. Focus on politics and culture of nationalism.

Credits: 3.00

**HST 035 - History of India to 1750**

Introduction to the early history of the Indian subcontinent, focusing on the political, cultural, and religious forces that shaped the region before British colonialism.

Credits: 3.00

**HST 036 - History of India since 1750**

Survey of the modern history of South Asia from the advent of British colonialism to the present, focusing on colonialism, nationalism, globalization, and religious conflict.

Credits: 3.00

**HST 040 - African History to C-1870**

Introduction to the political, social and economic history of Africa, focusing on the major events and forces that shaped the continent before the colonial period.

Credits: 3.00

**HST 041 - Africa From C-1870 to Present**

Introduction to African history from European conquest to the present, with special attention paid to African resistance, the nature of colonialism, and African independence movements.

Credits: 3.00

**HST 045 - Hst Islam&Middle East to 1258**

Introduction to the major institutions evolved in the Middle East from the advent of Islam to the Mongol conquest of Baghdad in 1258.

Credits: 3.00

**HST 046 - Hst Islam&Mid East Since 1258**

Introduction to the major institutions evolved in the Islamic Middle East since the Mongol conquest of Baghdad in 1258 to the present.

Credits: 3.00

**HST 050 - China & Japan to 1800**

Historical development of the politics, economics, social structure, philosophy, religion, and the arts in East Asia from neolithic times to 1800.

Credits: 3.00

**HST 051 - China & Japan Since 1800**

Continuity and change in the politics, economics, society, and culture of China and Japan in the 19th and 20th centuries.

Credits: 3.00

**HST 062 - Colonial Latin American Hist**

Comparative survey concentrating on the complex cultural, economic, and political development of Spanish and Portuguese America from pre-Conquest to 1820.

Credits: 3.00

**HST 063 - Modern Latin American History**

Comparative survey concentrating on Latin America from the independence movements to the present with emphasis on cultural, political, and economic development and U.S. intervention.



Credits: 3.00

**HST 065 - History of Canada**

Survey of Canadian history from aboriginal settlement to the present. Themes include Indian-White relations, colonial societies, national identities, American influence. Field trip to Canada.

Credits: 3.00

**HST 068 - History U.S. Peoples of Color**

Comparative survey of historical experiences of African-Americans, Latinos, Asian-Americans, and Native Americans in U.S. Racism, conquest, slavery, exploitation, civil rights, militancy, liberation movements, and cultural renaissance.

Credits: 3.00

**HST 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 6.00

**HST 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**HST 115 - History of Poland**

History of the Polish people and Polish state from the 10th century to the present. Strong emphasis on the 20th century. Pre/co-requisites: HST 10 or 26 or 27.

Cross-listed: HS 115

Credits: 3.00

**HST 116 - Medieval Mystics & Heretics**

This course covers the explosion of new religious ideas that characterized the period 1100-1500, and the Church's response to these challenges. Pre/co-requisites: Hst 23 or 24, or 6 hours of History, or Instructor Permission.

Credits: 3.00

**HST 120 - Historical Geography of Europe**

Cross-listed with: GEOG 155.

Credits: 3.00

**HST 121 - History of Greece**

Cross-listed with CLAS 121.

Credits: 3.00

**HST 122 - History of Rome**

Expansion of Rome in Italy and conquest of the Mediterranean world: cultural conflict, development of a unifying national identity, and the foundation of European states. Prerequisites: HST 009, CLAS 023/HST 022, or appropriate

work in Classics. Cross-listed with: CLAS 122.

Credits: 3.00

**HST 125 - The Renaissance**

European society from the 14th to early 16th century, emphasizing the transition from medieval to "modern" society and the roots of Renaissance Italy's cultural and artistic brilliance. Prerequisite: 9 or 10 or 14 or 25 or 26.

Credits: 3.00

**HST 126 - The Reformation**

European society from the Renaissance to mid-17th century. Emphasis on religious struggles growing out of Protestant Reformation and their impact on the social, political, economic, and cultural movements of the era. Prerequisites: 10 or 14 or 25.

Credits: 3.00

**HST 127 - European Culture&Soc 1914-1945**

Survey of European high modernism, focusing on the avant-garde, Stalinism, fascism, and popular culture. Prerequisite: 26 or 128 or three hours history.

Credits: 3.00

**HST 128 - Eur Soc & Culture 1880-1920**

European society and culture before and during "The Great War." Transitions in the arts, philosophy, science and technology, industry, dance, theatre, attitudes, and diplomacy. Prerequisite: 26.

Credits: 3.00

**HST 130 - European Intellectual History**

The history of ideas in Europe from the 15th to the 20th centuries. Topics vary according to instructor. Prerequisites: 25 or 26.

Credits: 3.00

**HST 132 - Modern Irish History**

Ireland 1600 to present. English subjugation of Ireland, Anglo-Irish, emergence of Irish nationalism, Irish Literary Renaissance, Irish Free State, and ongoing problem of Northern Ireland. Prerequisite: 25 or 26.

Credits: 3.00

**HST 137 - History of Russia**

Russian political, social, and intellectual history from Kievan Rus' to the Revolutions of 1917, focusing on the Imperial period (1700-1917). Prerequisite: 10 or 26.

Credits: 3.00

**HST 138 - History of the Soviet Union**

Soviet political and social history, 1917-1991, centering on the Stalin era and on

efforts of post-Stalin regimes to deal with the Stalinist legacy. Prerequisite: 10, 26 or 137.

Credits: 3.00

**HST 139 - Modern Germany**

Political, cultural, and social history of Germany from unification in 1871 through the Wilhemine empire, Weimar Republic, Nazi era, and postwar period.

Prerequisites: 10 or 14 or 26 or work in German.

Credits: 3.00

**HST 140 - W Africa:Holy War-Colonialism**

Lecture survey. Topics include: Sudanic states, Islamic revolution, slavery and the slave trade, European scramble and the African resistance, colonialism and the colonial state, African nationalism. Prerequisite: HST 040 or HST 041.

Credits: 3.00

**HST 141 - History of Southern Africa**

Lecture survey, covering the history of Southern Africa from the Bantu Migrations to the end of Apartheid. Prerequisite: HST 040 or HST 041.

Credits: 3.00

**HST 142 - Nigeria:Giant of Africa**

History of Nigeria from earliest times to the present, concentrating on the impact of colonial conquest, nationalism and the politics and economics of independence.

Pre/co-requisite: HST 040 or HST 041; Instructor permission.

Credits: 3.00

**HST 146 - History of Modern Middle East**

This course is designed to offer an historical understanding of social and political change in the Middle East during the 19th and 20th centuries. Prerequisite: HST 045 or HST 046; Instructor permission.

Credits: 3.00

**HST 149 - History of Ancient Near East**

Survey of primary civilizations of Egypt and Mesopotamia and the secondary cultures of Anatolia, Syria-Palestine, Assyria, and Persia. Prerequisites: HST 009 or CLAS 021 (HST 021) or appropriate work in Classics. Cross-listed with: CLAS 149.

Credits: 3.00

**HST 150 - China:The 19th&20th Centuries**

China from the late Qing Dynasty to the present, with particular attention to the influence of Western imperialism, the process of revolution, and the Communist era. Prerequisite: Six hours of history, 50 recommended.

Credits: 3.00

**HST 151 - Modern Japan**

Transition from tradition to modernity in Japan from the Meiji Restoration, 1868 to the present. Prerequisite: Six hours of history, 50 recommended.

Credits: 3.00

**HST 152 - The Chinese Revolution**

Examination of the ongoing process and significance of the Chinese Revolution of the 20th century, emphasizing the socio-economic and cultural aspects of the changes it wrought. Prerequisite: Six hours of History; HST 051 recommended.

Credits: 3.00

**HST 157 - Greek Feminism**

The construction of the status of women in ancient Greek society. Readings include lyric, tragic, and comic poetry, philosophy, oratory, novel, and nonliterary documents. Prerequisite: Sophomore standing; three hours in literature, History, Anthropology, or Sociology. Cross-listed with: CLAS 157, WLIT 157, WGST 157.

Credits: 3.00

**HST 161 - Caribbean & Latin American Hist**

Topics include colonialism, plantation economy, slavery, race relations, gender issues, economic development, and U.S. influence. Prerequisite: HST 062 or HST 063 or permission.

Credits: 3.00

**HST 163 - Early Caribbean History**

Exploration of the economic, political and cultural developments in the Caribbean, pre-Conquest to the 19th century. Prerequisite: Three hours History; HST 062 or HST 063 recommended.

Credits: 3.00

**HST 164 - Mod Carib Hist:Cannons-Cricket**

Exploration of the economic, political and cultural developments in the Caribbean, 19th century to the present. Prerequisite: Three hours History; HST 062 or HST 063 recommended.

Credits: 3.00

**HST 165 - Canadian-American Relations**

Canada's relationship with the U.S. from the Revolutionary War to the present, emphasizing diplomatic, economic, social, and environmental relations in the 19th and 20th centuries. Prerequisite: Three hours in U.S. or Canadian history.

Credits: 3.00

**HST 166 - Environmtl History of N America**

Examination of human-environmental interaction on the North American continent over the past five hundred years. Pre/co-requisite: Three hours History. Cross-listed with: ENVS 166.

Credits: 3.00

**HST 168 - Native American History**

A survey of North American Indian history from European contact to the present. Cultural and military conflicts, resistance movements, accommodation, and cultural adaptation within the U.S. Prerequisite: Three hours History.

Credits: 3.00

**HST 169 - Hist Native American Thought**

An examination of Native American philosophies, spiritualities, political theories, and ecological perspectives. Traditional Native American thought, intellectuals and intellectual movements, and contemporary resistance and reform movements.

Prerequisite: Three hours.

Credits: 3.00

**HST 170 - Historical Geography of the US**

(Same as Geography 170.)

Credits: 3.00

**HST 171 - Social History of the U.S.**

Selected topics in history of American society, including community structures, family life, work patterns, value systems, social class, and mobility. Prerequisite: HST 011 or HST 182.

Credits: 3.00

**HST 172 - Social History of the U.S.**

Selected topics in history of American society, including community structures, family life, work patterns, value systems, social class, and mobility. Prerequisite: HST 012 or HST 182.

Credits: 3.00

**HST 173 - US Foreign Relations to 1914**

The domestic and international contexts of U.S. relations with the rest of the world, 1776-1914. Prerequisites: 10 or 11.

Credits: 3.00

**HST 174 - US Foreign Relations 1914 On**

The domestic and international contexts of U.S. relations with the rest of the world, 1914-present. Prerequisites: 10 or 12.

Credits: 3.00

**HST 177 - American Revolution**

Survey of the Revolutionary Era, 1760-1791. Causes of the Revolution, War for Independence, establishment of the Constitution. Prerequisite: Six hours of history or other social sciences of which History 25 is highly recommended.

Credits: 3.00

**HST 179 - U.S. History Since 1960**

Topical review of U.S. history since 1960, emphasizing problems of interpreting and reconstructing the recent past. Prerequisite: 12.

Credits: 3.00

**HST 181 - Film and History**

Topics in the history of American and European cinema and society, focusing on the filmmaker as historian and the film as historical artifact. Prerequisite: Three hours History or Film.

Credits: 3.00

**HST 182 - History of Women in the US**

Survey of the origins and changes in images, status, and roles of women in American society since the colonial period. Prerequisite: Three hours in History (HST 011 or HST 012 recommended), or WST minor. Cross-listed with: WST 161.

Credits: 3.00

**HST 183 - US Military History**

Development of the U.S. military establishment within the framework of U.S. history from the Colonial era to the present. Prerequisite: HST 010, HST 011, or HST 012.

Credits: 3.00

**HST 184 - Vermont History**

Survey of Vermont history from early times to the present. Prerequisite: HST 011 or HST 012. Cross-listed with: VS 184.

Credits: 3.00

**HST 187 - Afr Amer Hst:1619 to Civil War**

Economic, social, political, and intellectual developments in U.S. history as they have affected and been affected by African-Americans, 1619 to Civil War.

Prerequisite: Three hours History.

Credits: 3.00

**HST 188 - Afr Amer Hst:Civil War-present**

Economic, social, political, and intellectual developments in U.S. history as they have affected and been affected by African-Americans, Civil War to present.

Prerequisite: Three hours History.

Credits: 3.00

**HST 189 - Hist African-American Women**

An exploration of the experiences of women of African descent from their arrival in America to contemporary times. Prerequisite: Any one of the following: HST 011, HST 012, HST 182, HST 187, HST 188, WGST 073, HST 174, HST 235, HST 273.

Credits: 3.00

**HST 190 - The Holocaust**

Study of the background, events, and aftermath of the Holocaust in Nazi Germany and Europe under German control. Prerequisite: 10 or 26 or 27 or instructor's permission.

Credits: 3.00

**HST 191 - World War II**

Causes, conduct, and consequences of global war from 1931-1945, including social, economic, political, and diplomatic as well as military aspects. Prerequisite: 10 or 12 or 26 or 51.

Credits: 3.00

**HST 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisites: Six hours of history or permission.

Credits: 3.00

**HST 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisites: Six hours of history or permission.

Credits: 3.00

**HST 197 - Readings & Research**

Prerequisite: May be prescribed by an individual Instructor; Junior/Senior standing.

Credits: 3.00

**HST 198 - Readings & Research**

Prerequisite: May be prescribed by an individual Instructor; Junior/Senior standing.

Credits: 6.00

**HST 199 - Internship in History**

Supervised cooperative internship work in history in archives, museums, libraries, etc. To be individually arranged for each student. Prerequisite: Junior/Senior standing; department permission.

Credits: 3.00

**HST 201 - History on the Land**

(Same as Historic Preservation 201; Art 201.)

Credits: 3.00

**HST 209 - Seminar in Global History**

Selected topics on the nature and results of interactions among the world's peoples. HST 209: to 1500. HST 210: since 1500. Prerequisite: Minimum Junior standing; twelve hours of History including HST 009 or HST 010.

Credits: 3.00

**HST 210 - Seminar in Global History**

Selected topics on the nature and results of interactions among the world's peoples. HST 209: to 1500. HST 210: since 1500. Prerequisite: Minimum Junior standing; twelve hours of History including HST 009 or HST 010.

Credits: 3.00

**HST 221 - Seminar in Ancient History**

(See Classics 221, 222.)

Credits: 3.00

**HST 222 - Seminar in Ancient History**

(See Classics 221, 222.)

Credits: 3.00

**HST 224 - Seminar in Medieval Europe**

Selected topics on Europe from the Fall of Rome to the Renaissance. Prerequisites: Twelve hours of history including 23 or 24; junior, senior, or graduate standing.

Credits: 3.00

**HST 225 - Seminar in Early Modern Europe**

Selected topics on European history from the Renaissance to the French Revolution. Prerequisite: Junior/Senior/Graduate standing and twelve hours of History.

Credits: 3.00

**HST 226 - Seminar in Modern Europe**

Selected topics on European history from 1815 to present. Prerequisites: Junior, senior, or graduate standing; 12 hours history.

Credits: 3.00

**HST 227 - Seminar in Modern Europe**

Selected topics on European history from 1815 to present. Prerequisites: Junior, senior, or graduate standing; 12 hours history.

Credits: 3.00

**HST 237 - Seminar in Russia before 1917**

Selected topics in Russian intellectual, social, and cultural history focusing on the period 1825-1917. Prerequisites: Junior, senior, or graduate standing, 12 hours of history including 137.

Credits: 3.00

**HST 238 - Seminar in Soviet History**

Selected topics in Soviet social and cultural history from the Bolshevik Revolution



to the death of Stalin (1917-53). Prerequisite: Junior/Senior/Graduate standing; twelve hours of History including HST 138.

Credits: 3.00

**HST 240 - Comparative Slavery:Hist Persp**

History of slavery from a comparative perspective, including Classical Antiquity, Islam and the Middle East, Africa, Latin America, and the Southern United States.

Prerequisite: Minimum Junior standing.

Credits: 3.00

**HST 241 - Seminar in African History**

Topics in African history. Generally, the seminar will focus on one of three themes: Islam, slavery or urbanism. Prerequisite: Junior/Senior/Graduate standing; twelve hours History.

Credits: 3.00

**HST 250 - Seminar in East Asian History**

Topics in the history of East Asia. Prerequisite: Junior/ Senior/Graduate standing; twelve hours of History.

Credits: 3.00

**HST 252 - Seminar on China**

Selected topics on the history of China. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History, including HST 150 or equivalent.

Credits: 3.00

**HST 262 - Sem Caribbean & Latin Amer Hst**

Selected topics in Caribbean and Latin American history. Prerequisite: Junior/Senior/Graduate standing; HST 062 or HST 063, or permission.

Credits: 3.00

**HST 265 - Seminar in Canadian History**

Topics in 19th and 20th century Canadian history; national development, regionalism, multiculturalism, and international relations. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.00

**HST 271 - Seminar in US Social History**

Topics in U.S. Social History. HST 271: to the Civil War; HST 272: Civil War to the present. Prerequisite: Junior/ Prerequisite: Minimum Junior standing; twelve hours of History.

Credits: 3.00

**HST 272 - Seminar in US Social History**

Topics in U.S. Social History. HST 271: to the Civil War; HST 272: Civil War to the present. Prerequisite: Junior/Senior/ Graduate standing; twelve hours of History.

Credits: 3.00

**HST 273 - Seminar in Modern U.S. History**

Selected topics in U.S. history, among them foreign relations, the role of the presidency, World War II, and the Cold War. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.00

**HST 274 - Seminar in Modern U.S. History**

Selected topics in U.S. history, among them foreign relations, the role of the presidency, World War II, and the Cold War. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.00

**HST 284 - Seminar in Vermont History**

Topical approach to Vermont history through original research utilizing primary sources available at UVM, the Vermont Historical Society, and the Vermont State Archives. Prerequisite: Junior/Senior/Graduate standing; twelve hours History, including HST 184 or permission.

Credits: 3.00

**HST 287 - Seminar in Historiography**

Topics and methods in contemporary historical writing. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.00

**HST 295 - Special Topics Seminar**

See Schedule of Courses for specific titles. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.00

**HST 296 - Special Topics Seminar**

See Schedule of Courses for specific titles. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.00

**HST 300 - Graduate Tutorial**

Readings and research in a specific area; topics to be individually arranged; attendance in appropriate undergraduate courses may be required (see undergraduate catalogue). Prerequisite: Instructor Permission. Variable credit.

Credits: 3.00

**HST 301 - Intro to Grad Study in History**

Historical methods, philosophy of history, and the history of history writing.

Credits: 3.00

**HST 351 - American Cultural History**

Intended primarily for students in Historic Preservation, but open to other Graduate students.

Credits: 3.00

**HST 391 - Master's Thesis Research**

Required of all candidates for the M.A. Normally arranged for two semesters at three hours each. Credits: 1-6.

Credits: 6.00

**HST 395 - Special Topics**

Credits: 3.00

**HST 397 - Special Readings and Research**

Directed individual study of areas not appropriately covered by existing courses. Variable credit. Credits 1-6.

Credits: 3.00



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## Courses in Holocaust Studies (HS)

### HS 017 - German Literature:Translation

See Schedule of Courses for specific titles.

Credits: 3.00

### HS 027 - Modern Eastern Europe

Eastern Europe since 1772, especially areas comprising present-day states of Bosnia-Herzegovina, Croatia, the Czech Republic, Hungary, Macedonia, Poland, Slovakia, Slovenia, and Yugoslavia. Focus on politics and culture of nationalism. Cross-listed with: HST 027.

Credits: 3.00

### HS 095 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 3.00

### HS 096 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 3.00

### HS 115 - History of Poland

History of the Polish people and Polish state from the 10th century to the present. Strong emphasis on the 20th century. Pre/co-requisites: HST 10 or 26 or 27. Cross-listings: HST 115.

Credits: 3.00

### HS 117 - German Literature:Translation

See Schedule of Courses for specific titles. Cross-listed with: WLIT 117.

Credits: 3.00

**HS 139 - Modern Germany**

Political, cultural, and social history of Germany from unification in 1871 through the Wilhelmine Empire, Weimar Republic, Nazi era, and post-war period.

Prerequisites: History 10, 14, or 26, or work in German; Crosslisted with HST 139.

Credits: 3.00

**HS 180 - Moral&Rel Persp on Holocaust**

A study of the Holocaust in relation to questions of moral responsibility, justice, guilt, and human suffering, focusing on Jewish responses. Cross-listed with: REL 180.

Credits: 3.00

**HS 190 - The Holocaust**

Study of the background, events, and aftermath of the Holocaust in Nazi Germany and Europe under German control. Prerequisites: History 10 or 26 or 27 or instructor's permission. Crosslisted with HST 190.

Credits: 3.00

**HS 191 - World War II**

Causes, conduct, and consequences of global war from 1931-1945, including social, economic, political, and diplomatic as well as military aspects.

Prerequisites: History 10 or 12 or 26 or 51. Crosslisted with HST 191.

Credits: 3.00

**HS 195 - Special Topics**

Credits: 3.00

**HS 196 - Special Topics**

Credits: 3.00

**HS 197 - Readings and Research**

May be prescribed by an individual instructor. Junior /Senior standing.

Credits: 1.00 to 6.00

**HS 198 - Readings and Research**

May be prescribed by an individual instructor. Junior/ Senior standing.

Credits: 1.00 to 6.00

**HS 226 - Seminar in Modern Europe**

Selected topics on European history from 1815 to present. Prerequisites: Junior or senior standing; 12 hours of history.

Credits: 3.00

**HS 227 - Seminar in Modern Europe**

Selected topics on European history from 1815 to present. Prerequisites: Junior or senior standing; 12 hours of history.

Credits: 3.00

**HS 282 - Sem:Lit Genre, Period or Theme**

Study of a literary genre, period, or theme through close readings of representative texts supplemented by lectures and reports on socio-cultural context. May be repeated. Cross-listed with: GERM 282.

Credits: 3.00

**HS 295 - Special Topics**

Credits: 3.00

**HS 296 - Special Topics**

Credits: 3.00

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### Courses in Honors (HON)

**HON 093 - Introductory Special Topics**

Seminars restricted to First-Year John Dewey Honors Program Students.

Prerequisite: Admission to the John Dewey Honors Program.

Credits: 3.00

**HON 094 - Introductory Special Topics**

Seminars restricted to First-Year John Dewey Honors Program Students.

Prerequisite: Admission to the John Dewey Honors Program.

Credits: 3.00

**HON 095 - Introductory Special Topics**

This seminar accompanies the visit of the Carol G. Simon Speaker to the John Dewey Honors Program each spring. Prerequisite: Admission to the John Dewey Honors Program. Satisfactory/Unsatisfactory.

Credits: 1.00

**HON 096 - Introductory Special Topics**

Credits: 1.00

**HON 100 - Knowledge and Theory**

Using selected examples of knowledge from across the arts and sciences, this course inquires into the production of knowledge and theoretical models in different fields. Prerequisite: Admission to the John Dewey Honors Program.

Credits: 3.00

**HON 195 - Intermediate Special Topics**

This seminar is usually taken by John Dewey Honors Program students in their Junior year. See schedule of courses for specific titles. Prerequisite: Admission to the John Dewey Honors Program.

Credits: 3.00

**HON 196 - Honors**

Credits: 3.00

**HON 201 - JDHP Thesis Seminar**

This seminar brings John Dewey Honors Program students writing their college honors theses together in semi-monthly meetings to share their research problems, concerns and findings. Satisfactory/Unsatisfactory.

Credits: 0.00

**HON 202 - Honors: Anthropology**

Credits: 3.00

**HON 203 - Honors: Anthropology**

Credits: 3.00

**HON 204 - Honors: Studio Art**

Credits: 3.00

**HON 205 - Honors: Studio Art**

Credits: 3.00

**HON 206 - Honors: Art History**

Credits: 3.00

**HON 207 - Honors: Art History**

Credits: 3.00

**HON 208 - Honors: Biology**

Credits: 3.00

**HON 209 - Honors: Biology**

Credits: 3.00

**HON 210 - Honors: Botany**

Credits: 3.00

**HON 211 - Honors: Botany**

Credits: 3.00

**HON 212 - Honors: Chemistry**

Credits: 3.00

**HON 213 - Honors: Chemistry**

Credits: 3.00



**HON 214 - Honors: Classics**

Credits: 3.00

**HON 215 - Honors: Classics**

Credits: 3.00

**HON 216 - Honors:Communication Science**

Credits: 3.00

**HON 217 - Honors:Communication Science**

Credits: 3.00

**HON 218 - Honors: Economics**

Credits: 3.00

**HON 219 - Honors: Economics**

Credits: 3.00

**HON 220 - Honors: English**

Credits: 3.00

**HON 221 - Honors: English**

Credits: 3.00

**HON 222 - Honors: French**

Credits: 3.00

**HON 223 - Honors: French**

Credits: 3.00

**HON 224 - Honors: Geography**

Credits: 3.00

**HON 225 - Honors: Geography**

Credits: 3.00

**HON 226 - Honors: Geology**

Credits: 3.00

**HON 227 - Honors: Geology**

Credits: 3.00

**HON 228 - Honors: German**

Credits: 3.00

**HON 229 - Honors: German**

Credits: 3.00

**HON 230 - Honors: Greek**

Credits: 3.00

**HON 231 - Honors: Greek**

Credits: 3.00

**HON 232 - Honors: History**

Credits: 3.00

**HON 233 - Honors: History**

Credits: 3.00

**HON 234 - Honors: Area & Int'l Studies**

Credits: 3.00

**HON 235 - Honors: Area & Int'l Studies**

Credits: 3.00

**HON 236 - Honors: Latin**

Credits: 3.00

**HON 237 - Honors: Latin**

Credits: 3.00

**HON 240 - Honors: Music**

Credits: 3.00

**HON 241 - Honors: Music**

Credits: 3.00

**HON 242 - Honors: Philosophy**

Credits: 3.00

**HON 243 - Honors: Philosophy**

Credits: 3.00

**HON 244 - Honors: Physics**

Credits: 3.00

**HON 245 - Honors: Physics**

Credits: 3.00

**HON 246 - Honors: Political Science**

Credits: 3.00

**HON 247 - Honors: Political Science**

Credits: 3.00

**HON 248 - Honors: Psychology**

Credits: 3.00

**HON 249 - Honors: Psychology**

Credits: 3.00

**HON 250 - Honors: Religion**

Credits: 3.00

**HON 251 - Honors: Religion**

Credits: 3.00

**HON 252 - Honors: Russian**

Credits: 3.00

**HON 253 - Honors: Russian**

Credits: 3.00

**HON 254 - Honors: Sociology**

Credits: 3.00

**HON 255 - Honors: Sociology**

Credits: 3.00

**HON 256 - Honors: Spanish**

Credits: 3.00

**HON 257 - Honors: Spanish**

Credits: 3.00

**HON 258 - Honors: Theatre**

Credits: 3.00

**HON 259 - Honors: Theatre**

Credits: 3.00

**HON 260 - Honors: Environmental Studies**

Credits: 3.00

**HON 261 - Honors: Environmental Studies**

Credits: 3.00

**HON 262 - Honors:Women's Studies**

Credits: 3.00

**HON 263 - Honors:Women's&Gender Studies**

Credits: 3.00

**HON 264 - Honors:Individually Designed**

Credits: 3.00

**HON 265 - Honors:Individually Designed**

Credits: 3.00

**HON 266 - Honors:Computer Science**

Credits: 3.00

**HON 267 - Honors:Computer Science**

Credits: 3.00

**HON 268 - Honors: Italian Studies**

Credits: 3.00

**HON 269 - Honors: Italian Studies**

Credits: 3.00

**HON 273 - Honors: Film/Television Studies**

Contact Department for specific Requirements. Pre/co-requisite: FTS 007, FTS 008, or FTS 009, and FTS 121.

Credits: 3.00

**HON 274 - Honors:Film/Television Studies**

Contact Department for specific Requirements. Pre/co-requisite: FTS 007, FTS 008, or FTS 009 and FTS 121.

Credits: 1.00 to 6.00

**HON 275 - Honors: Biochemistry**

Credits: 3.00

**HON 276 - Honors: Biochemistry**

Credits: 3.00

**HON 277 - Honors: Environmental Sciences**

Credits: 3.00

**HON 278 - Honors: Environmental Sciences**

Credits: 3.00

**HON 288 - Honors: Mathematics**

Credits: 3.00

**HON 289 - Honors: Mathematics**

Credits: 3.00

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## Courses in Honors College (HCOL)

### HCOL 031 - Music in Live Performance

While attending five Lane Series events, students will discuss historical context and will learn to listen and criticize different genres of music and theatre.

Credits: 1.00

### HCOL 032 - Critical Looking

This course develops strategies for looking critically at original works of art and architecture from the University and Burlington communities. Emphasis upon writing and speaking.

Credits: 1.00

### HCOL 095 - Honors College First Year Sem

A two semester sequence required of all Honors College First Year students. Course content will vary from year to year.

Credits: 3.00

### HCOL 096 - Honors College First Year Sem

A two semester sequence required of all Honors College First Year students. Course content will vary from year to year.

Credits: 3.00

### HCOL 195 - Honors College Sophomore Sem

A series of special topics courses available to Honors College Sophomore students. Course content will vary from year to year.

Credits: 3.00

### HCOL 196 - Honors College Sophomore Sem

A series of special topics courses available to Honors College Sophomore students. Course content will vary from year to year.

Credits: 3.00

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## Courses in Human Development & Fam Studies (HDFS)

### HDFS 001 - Int Hum Dev&Fam Std&Acad Serv

Seminar designed to introduce concepts and practices of Human Development and Family Studies through integrating academic service-learning in developmental settings with critical thinking about development. Prerequisite: Majors only.

Credits: 4.00

### HDFS 005 - Human Development

A comprehensive survey of life span individual and family development within social and historical context.

Credits: 3.00

### HDFS 020 - Aging:Change & Adaptation

Individual and social meanings of aging and old age; physical, physiological, psychological, and sociological changes accompanying aging; individual, family, community, and societal adaptations to aging. Cross-listed with NURS 020 and SOC 020.

Credits: 3.00

### HDFS 055 - Special Topics I

Credits: 6.00

### HDFS 060 - Family Context of Development

Developmental ecological approach to analysis of the family as a system in which individuals develop.

Credits: 3.00

### HDFS 065 - Human Relationships&Sexuality

Sexual responsibility and the biological, social, psychological growth, and



development of human beings in terms of sex role identity.

Credits: 3.00

**HDFS 152 - Biology of Aging**

Cross-listed with: NURS 100.

Credits: 3.00

**HDFS 161 - Social Context of Development**

Developmental ecological approach to analysis of social institutions as influences on human development. Focus on education, community, health care, and social services. Pre/co-requisite: HDFS 060.

Credits: 3.00

**HDFS 167 - Sexual Identities**

Exploration of diverse lesbian, gay, bisexual, and/or transgender identities, families, and communities, and their current personal, social, and cultural meanings and contexts. Prerequisites: Three hours in Human Development or related field; sophomore standing.

Credits: 3.00

**HDFS 195 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Enrollment may be more than once, accumulation up to 12 hours.

Prerequisite: Varies with course.

Credits: 3.00

**HDFS 197 - Readings & Research**

Credits: 3.00

**HDFS 200 - Contemporary Issues**

Undergraduates only.

Credits: 3.00

**HDFS 260 - Family Ecosystem**

Family viewed in and as an environment for human development. The family ecological approach applied to practical family concerns. Prerequisites: Senior standing or instructor's permission.

Credits: 3.00

**HDFS 263 - Advanced Child Development**

Survey of professional literature in child development with special emphasis on influence of early life experiences throughout the life cycle.

Credits: 3.00

**HDFS 264 - Contemporary Issues Parenting**

Contemporary cultural factors that influence adult lifestyles and their relationship to

successful parenting. Prerequisites: Nine hours in Human Development or instructor's permission. May be taken more than once.

Credits: 3.00

### **HDFS 266 - Seminar in Human Development**

Intensive study of issues in human development and their application in a wide variety of professional areas. May be taken more than once up to a maximum of 12 hours. Prerequisite: Junior standing; nine hours in Human Development & Family Studies or Instructor permission.

Credits: 3.00

### **HDFS 267 - Adv Seminar Sexual Identities**

Intensive study of lesbian, gay, bisexual, and/or transgender identities, families, and communities in diverse individual, social, political, and cultural contexts. Prerequisite: Junior standing; nine hours in Human Development & Family Studies or Instructor permission.

Credits: 3.00

### **HDFS 268 - Sem In Close Relationships**

Causal conditions influencing formation, maintenance, and dissolution of intimate adult relationships. Draws on theory and students' personal experiences to explicate the nature of close relationships in contemporary American society. Prerequisite: Junior standing; nine hours in Human Development & Family Studies or Instructor permission. Offered in alternate years.

Credits: 3.00

### **HDFS 291 - Special Problems**

Reading, discussion, and special field and/or laboratory investigations. Prerequisite: Department permission. Students may enroll more than once up to twelve hours.

Credits: 1.00 to 6.00

### **HDFS 295 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Enrollment may be more than once, accumulation up to 12 hours. Prerequisite: Departmental permission.

Credits: 3.00

### **HDFS 296 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and community representative, credit arranged up to 15 hours. Prerequisite: Department permission.

Credits: 6.00



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## Courses in Humanities (HUMN)

### HUMN 095 - Special Topics

Credits: 4.00

### HUMN 096 - Special Topics

Credits: 3.00

### HUMN 195 - Special Topics

Intermediate courses or seminars on topics beyond the scope of existing offerings. See Schedule of Courses for specific titles.

Credits: 3.00

### HUMN 196 - Special Topics

Credits: 5.00

### HUMN 295 - Advanced Special Topics

Credits: 3.00

### HUMN 300 - Modern Literary Theory

A survey of modern literary theory, including Slavic and Anglo-American formalism, marxism, feminism, structuralism, hermeneutics, deconstruction, and new historicism. Prerequisites: Graduate standing at UVM; or an A.B. in some humanities discipline; Instructor permission. Alternate years.

Credits: 3.00

### HUMN 301 - Humanities Graduate Seminar

Varying interdisciplinary topics for humanities graduate students. Prerequisites: Graduate standing at UVM; or an A.B. in some humanities discipline; Instructor permission.

Credits: 3.00

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## Courses in Individually Designed Majors (IDM)

### **IDM 264 - Honors:Individually Des Majors**

See pages 61 and 62, and contact program for specific requirements.

Credits: 3.00

### **IDM 265 - Hon:Individually Des Majors**

See pages 61 and 62, and contact program for specific requirements.

Credits: 3.00



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## Courses in Italian (ITAL)

### ITAL 001 - Elementary I

Fundamentals of Italian composition, comprehension, pronunciation, speaking, reading, writing. Structure of the basic Italian sentence. No prior knowledge expected.

Credits: 4.00

### ITAL 002 - Elementary II

Continuation of ITAL 001. Prerequisite: ITAL 001 or equivalent.

Credits: 4.00

### ITAL 051 - Intermediate Rdg & Conv I

Designed to help students move from a basic knowledge of Italian to the ability to read, speak, and understand Italian better. Some grammar review and short compositions. Prerequisite: ITAL 002 or equivalent.

Credits: 3.00

### ITAL 052 - Intermediate Rdg & Conv II

Continues building on the skills developed in ITAL 051. Less stress on grammar review. Reading selections and compositions are longer and more sophisticated than in ITAL 051. Prerequisite: ITAL 051 or equivalent.

Credits: 3.00

### ITAL 095 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 3.00

### ITAL 121 - Issues in Italian Culture

An introduction to the cultural realities of Italy, from politics to pop music, food to fashion. Emphasis on improving linguistic fluency. Prerequisite: ITAL 052 or

equivalent.

Credits: 3.00

**ITAL 122 - Italian Literature & Film**

A study of the multiple relationships between literary and cinematic texts and their role as a window on Italian culture. Emphasis on improving linguistic fluency.

Prerequisite: ITAL 052 or equivalent.

Credits: 3.00

**ITAL 157 - Modern Italian Fictions**

An introduction to Italian literature from the 18th century to today, with attention to art, music, cinema, and the Internet. Emphasis on improving linguistic fluency.

Prerequisite: ITAL 052 or equivalent.

Credits: 3.00

**ITAL 158 - Early Italian Lit in Context**

An introduction to Italian literature from its beginnings through the early-modern period. Authors may include Dante, Boccaccio, Machiavelli. Emphasis on improving linguistic fluency. Prerequisites: 52 or equivalent.

Credits: 3.00

**ITAL 170 - Cultures of Women in Italy**

A study of Italian women writers, journalists, artists, and film directors. Emphasis on reading and discussion. Prerequisite: ITAL 052 or equivalent.

Credits: 3.00

**ITAL 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**ITAL 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**ITAL 197 - Readings & Research**

Permission of Department Chair required.

Credits: 3.00

**ITAL 198 - Readings & Research**

Permission of department chair required.

Credits: 1.00 to 6.00

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## Courses in Japanese (JAPN)

### JAPN 001 - Elementary Japanese

An introduction to spoken and written Japanese through aural-oral drills and grammar presentation. The three writing systems of Japanese (hiragana, katakana, and kanji) are introduced. Prerequisite: No prior knowledge for 1.

Credits: 4.00

### JAPN 002 - Elementary Japanese

An introduction to spoken and written Japanese through aural-oral drills and grammar presentation. The three writing systems of Japanese (hiragana, katakana, and kanji) are introduced. Prerequisite: 1 or Equivalent.

Credits: 4.00

### JAPN 051 - Intermediate Japanese

A continuation of 2 designed to enable the student to converse in everyday Japanese and to read and write simple texts. Prerequisites: 2 or equivalent.

Credits: 4.00

### JAPN 052 - Intermediate Japanese

A continuation of 2 designed to enable the student to converse in everyday Japanese and to read and write simple texts. Prerequisites: 51 or equivalent.

Credits: 4.00

### JAPN 095 - Special Topics

See Schedule of Courses for specific titles.

Credits: 3.00

### JAPN 096 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 1.00

**JAPN 101 - Advanced Japanese**

Further development of oral proficiency and advanced study of grammatical structure of modern Japanese, supplemented by audiovisual materials and authentic written texts of several kinds. Prerequisites: 52 or equivalent.

Credits: 3.00

**JAPN 102 - Advanced Japanese**

Further development of oral proficiency and advanced study of grammatical structure of modern Japanese, supplemented by audiovisual materials and authentic written texts of several kinds. Prerequisites: 101 or equivalent.

Credits: 4.00

**JAPN 121 - Japanese Conversation I**

Development of speaking and listening skills related to concrete topics through total immersion in Japanese. Prerequisite: JAPN 052 or equivalent.

Credits: 1.00

**JAPN 122 - Japanese Conversation II**

Development of functional skills to carry out daily conversation in varied social contexts. Prerequisite: JAPN 052 or equivalent.

Credits: 1.00

**JAPN 195 - Intermediate Special Topics**

See Schedule of Courses for special titles. Prerequisite: JAPN 052 or equivalent.

Credits: 3.00

**JAPN 196 - Intermediate Special Topics**

See Schedule of Courses for special titles. Prerequisite: JAPN 052 or equivalent.

Credits: 3.00

**JAPN 197 - Readings and Research**

Independent study of a specific area, subject, or theme with an approved instructor.

Credits: 1.00

**JAPN 198 - Readings and Research**

Independent study of a specific area, subject, or theme with an approved instructor.

Credits: 3.00

**JAPN 201 - Studies of Japanese Texts**

Directed reading of authentic texts and guided practice of conversational skills in multiple social contexts. Courses can be repeated with different content.

Prerequisites: 102 or equivalent.

Credits: 3.00



**JAPN 202 - Studies of Japanese Texts**

Directed reading of authentic texts and guided practice of conversational skills in multiple social contexts. Courses can be repeated with different content.

Prerequisites: 102 or equivalent.

Credits: 3.00

**JAPN 221 - Japanese for Communication I**

Training in skills to communicate on concrete and abstract topics. Repeatable with different content. Prerequisite: JAPN 102 or equivalent.

Credits: 1.00

**JAPN 222 - Japanese for Communication II**

Development of skills to present information and view points in varied social contexts. Repeatable with different content. Prerequisite: JAPN 102 or equivalent.

Credits: 1.00

**JAPN 295 - Advanced Special Topics**

Contact department for details.

Credits: 3.00

**JAPN 296 - Advanced Special Topics**

Contact department for details.

Credits: 3.00

**JAPN 297 - Adv Readings and Research**

Advanced independent study of a specific area, subject, or theme with an approved instructor. Prerequisite: JAPN 102 or equivalent.

Credits: 1.00 to 6.00

**JAPN 298 - Adv Readings and Research**

Advanced independent study of a specific area, subject, or theme with an approved instructor. Prerequisite: JAPN 102 or equivalent.

Credits: 1.00 to 6.00



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## Courses in Latin (LAT)

### LAT 001 - Elementary

For students who present less than two years of high school Latin.

Credits: 4.00

### LAT 002 - Elementary Latin

For students who present less than two years of high school Latin.

Credits: 4.00

### LAT 003 - Self-Paced Latin

Fundamentals of Classical Latin through tutorial instruction, credit dependent on amount of material learned. May be repeated for credit. No credit with LAT 001 and LAT 002.

Credits: 3.00

### LAT 051 - Intermediate

Selections from Cicero and other prose authors.

Credits: 3.00

### LAT 052 - Intermediate Latin

Selections from Vergil and Ovid.

Credits: 3.00

### LAT 095 - Special Topics

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

### LAT 096 - Elementary Special Topics

Introductory courses or seminars on topics beyond the scope of existing

departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**LAT 101 - Survey Latin Literature**

Selections from principal Roman authors.

Credits: 3.00

**LAT 102 - Survey Latin Literature**

Selections from principal Roman authors.

Credits: 3.00

**LAT 111 - Latin Prose Style**

Readings in literary prose analyzed stylistically and imitated in composition.

Required of B.A. and B.Ed. Latin majors.

Credits: 3.00

**LAT 112 - Latin Prose Style**

Readings in literary prose analyzed stylistically and imitated in composition.

Required of B.A. and B.Ed. Latin majors.

Credits: 3.00

**LAT 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**LAT 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**LAT 197 - Readings & Research**

Credits: 3.00

**LAT 198 - Readings & Research**

Credits: 3.00

**LAT 203 - Republican Prose**

Extensive reading in Caesar and Sallust, and in the speeches of Cicero. Alternate years, as needed.

Credits: 3.00

**LAT 204 - Epic Poets**

Extensive reading in Lucretius, Vergil, Ovid, and others. Alternate years, as needed.

Credits: 3.00

**LAT 227 - Roman Lyric Poets**

Selections from the works of Catullus, Horace, Propertius, and Tibullus. Alternate years, as needed.

Credits: 3.00

**LAT 251 - Roman Letters**

Letters of Cicero, Horace, and Pliny. Alternate years, as needed.

Credits: 3.00

**LAT 252 - Comedy**

Two plays of Plautus and Terence. Study of the precursors of this literary form. Alternate years, as needed.

Credits: 3.00

**LAT 253 - Roman Oratory**

Selections from Cicero's De Oratore, Orator, Brutus, and from his speeches. Historical development of forensic and other rhetorical canons. Alternate years, as needed.

Credits: 3.00

**LAT 255 - Historians of the Empire**

Historians of the Empire. Augustus, Res Gestae; Tacitus, Annals, I-IV; selections from Suetonius and Ammianus Marcellinus. Alternate years, as needed.

Credits: 3.00

**LAT 256 - Satire**

Selections from Horace, Persius, Juvenal, Petronius. Study of the development of this literary form. Alternate years, as needed.

Credits: 3.00

**LAT 271 - Silver Latin**

Extensive reading of post-Augustan authors not included in other advanced courses. Alternate years, as needed.

Credits: 3.00

**LAT 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**LAT 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 6.00



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## Courses in Leadership and Policy Studies (EDLP)

### EDLP 200 - Contemporary Issues

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 6.00

### EDLP 264 - Evaluation in Ed & Soc Svcs

For educational and social service personnel. Overview of the state-of-the-art of evaluation, emerging concepts, related models. Potential applications to settings; systematic data analysis. Prerequisite: Twelve hours in education or Instructor permission.

Credits: 3.00

### EDLP 266 - Educational Finance

National, state, and local practices in educational financing and taxation; educational policies and incentives in funding; other revenue sources; financial expenditure procedures. Prerequisite: Twelve hours in education or Instructor permission.

Credits: 3.00

### EDLP 268 - Educational Law

Legal basis for education. State and Federal statutes; related court cases; Attorney General opinions; Special Education procedures; Vermont State Board and State Education Department policies; regulations. Prerequisite: Twelve hours in education or Instructor permission.

Credits: 3.00

### EDLP 280 - Schl Business Mgmt

Analysis of basic management concepts applied to administering schools. Topics

include leadership/management trends, types of budgets, risk management, planning, and other personnel and business operations issues. Prerequisite: Twelve hours in education.

Credits: 3.00

**EDLP 291 - Spec Tpcs in Org&Hum Res Dev**

Special issues in counseling, administration and planning, social work, or higher education not appropriate to content of existing courses. Courses will reflect the social services orientation of the Department of Education.

Credits: 3.00

**EDLP 295 - Lab Experience**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 3.00

**EDLP 319 - Internship**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Instructor permission.

Credits: 3.00

**EDLP 334 - Effecting & Managing Change**

Change processes and models, the dynamics of change within the organization, and external factors affecting change. Managerial, leadership, and organizational factors and conditions impacting on innovations; change phases of initiation, implementation, and institutionalization. Prerequisite: Twelve hours of Graduate study.

Credits: 3.00

**EDLP 335 - Staff Evaluation & Development**

Supervisory roles, behavior, responsibilities, and relationships in educational and social service organizations; processes for evaluating the performance, promoting the development of staff, and increasing organization effectiveness.

Credits: 3.00

**EDLP 336 - Curr Mgmt in Ed & Soc Srv Org**

Approaches to coordinating and managing curriculum or programs at the classroom, department, or organizational level; examination of factors effecting design and delivery of curriculum; developing curriculum guides and assessment methods. Prerequisite: Eighteen hours of education and related areas or appropriate professional certification.

Credits: 3.00

**EDLP 337 - Political Proc in Ed & Soc Srv**

Political and operational relationships between schools, agencies, and other organizations at all governmental levels. Policy development, working with policy boards, and coordinating organizational and community activities.

Credits: 3.00

**EDLP 352 - Analysis of Educ & Soc Srv Org**

Organizations as open or closed systems; examinations of goals, power, conflict, leadership, decision-making roles, communication; diagnosing causes of organizational problems; factors aiding, impeding organizational change.

Credits: 3.00

**EDLP 353 - Sem:Organizational Leadership**

Roles, functions, relationships and responsibilities in maintaining and changing organizations; leadership styles and behavior; trends and issues impacting on organizations.

Credits: 3.00

**EDLP 355 - System Analysis & Planning**

An analysis of and experience with planning theories and techniques that derive from General Systems Theory.

Credits: 3.00

**EDLP 356 - Sem in Futurism & Planning**

Knowledge, values, attitudes relating to concepts about the future; alternative futures, trend analysis, goal setting; planning processes applied to educational and social service organizations.

Credits: 3.00

**EDLP 358 - Sem in Community Education**

The seminar participants will analyze the Community Education process, relate the process to community development, and develop strategies for the planning and implementation of Communication Education.

Credits: 3.00

**EDLP 372 - Leadership&Creative Imaginatn**

Leadership in societal organizations as presented in literature, other media. Students will demonstrate abilities to integrate leadership theory, principles, personal beliefs, practices with literary and other media models. Prerequisite: Ed.D. students have priority.

Credits: 3.00

**EDLP 380 - Professional Problems in Educ**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.00

**EDLP 386 - Org & Human Resource Dev**

The concept and practice of organization development, analysis of and laboratory experience in the utilization of intervention methodologies. Prerequisite: One course relating to human relations; one course relating to organizations or equivalent, or Instructor permission.

Credits: 3.00

**EDLP 387 - Collaborative Consultation**

Cross-listed with: EDSP 387.

Credits: 3.00

**EDLP 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 3.00

**EDLP 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisites: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 3.00

**EDLP 409 - Applied Educational Research**

Introduction to philosophical and methodological foundations of interpretive and empirical-analytic research with emphasis on systems change. Preparation of critical readers and synthesizers of research studies. Prerequisite: Doctoral level standing.

Credits: 3.00

**EDLP 431 - Adv Sem Organizational Ldrshp**

Students inquire into new theories on leadership and the cognitive processes that define the intentions, values, beliefs, and future perspectives of themselves as leaders. Prerequisite: Doctoral level standing.

Credits: 3.00

**EDLP 432 - Adv Sem:Org Chng&Hum Res Dev**

Students inquire into new theories, themes, and multicultural dimensions of organizations. Strategies for managing human resources, structural issues, and future trends in organizations are analyzed. Prerequisite: Doctoral level standing.

Credits: 3.00

**EDLP 437 - Sem on Educational Policy**

An examination of the nature and function of education policy, emphasizing the structure and processes in education policy formulation and implementation. Prerequisite: Doctoral level standing.

Credits: 3.00



## EDLP 491 - Doctoral Dissertation Research

Credits: 6.00

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### Courses in Library Science (EDLI)

**EDLI 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDLI 272 - Manage Schl Library Media Ctrs**

Overview of administrative issues, including development of policies and procedures, budget preparation, personnel administration, and public relations. Focus on information technology and literacy. Prerequisites: Twelve hours in education and related areas, or Instructor permission.

Credits: 3.00

**EDLI 273 - Organizing Schl Libr Media Ctr**

Introduction to cataloging of print and non-print materials, Dewey Decimal Classification, application of microcomputers to catalog and circulation services. Prerequisite: EDLI 272 or equivalent.

Credits: 3.00

**EDLI 274 - Design Instr Sch Lbr Media Ctr**

Designing library instruction for integration with curricula and collaborating to create effective lessons. Issues surrounding active learning, critical thinking, learning styles, and assessment are examined. Prerequisite: EDLI 272 or equivalent.

Credits: 3.00

**EDLI 275 - Dev Sch Libr Media Ctr Collect**

Evaluating and selecting books, periodicals, audiovisuals, software, and other materials for full range of student ages and ability levels. Maintaining collection,

weeding, using interlibrary loan, and dealing with censorship. Prerequisite: EDLI 272 or equivalent.

Credits: 3.00

**EDLI 276 - Information Sources & Services**

Helping students and teachers find information using print, online, CD-ROM and other resources. Developing interview skills and selecting materials for elementary and secondary core collections. Prerequisite: EDLI 272 or equivalent.

Credits: 3.00

**EDLI 277 - Info Tech Schl Libr Media Ctrs**

Selecting, using, and maintaining full range of media equipment, including audiovisual and computer based systems. Designing and improving presentation facilities for media. Prerequisite: EDLI 272 or equivalent.

Credits: 3.00

**EDLI 295 - Lab Experience in Educ**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 3.00

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## Courses in Linguistics (LING)

### LING 096 - Introductory Special Topics

Credits: 3.00



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## Courses in Literacy (EDLT)

### EDLT 200 - Contemporary Issues

Credits: 3.00

### EDLT 222 - Cultivate Chil Lit in EI/Mid Sch

Contemporary research and practice related to the development of strategic, motivated, and independent readers and writers. Emphasis on integrating reading and writing within collaborative environments. Prerequisite: Twelve hours in Education and/or related areas including an introductory course in reading or Instructor permission.

Credits: 3.00

### EDLT 223 - Read Pgms in Sec Schl & Col

Relationship of reading to learning study or organization, instructional procedures, and materials for developing reading improvement programs for secondary and college students; reading in content areas. Prerequisite: Twelve hours in Education and/or related areas or Instructor permission.

Credits: 3.00

### EDLT 236 - Multicultural Children's Lit

Current research in multicultural education and literacy informs examination of representation and perspective in literature for children and youth. Perspectives include religion, race, gender, SES.

Credits: 3.00

### EDLT 295 - Laboratory Experience in Educ

Credits: 3.00

### EDLT 375 - Lit Assmt: Understand Indiv Dif

Designing and using assessment strategies to improve and adapt instruction.

Identify, evaluate, and document literacy development, emphasizing students at risk of reading failure. Prerequisite: EDLT 222 or Instructor permission.

Credits: 3.00

**EDLT 376 - Clin/Tut Appr for Lit Intrvntn**

Approaches for prevention, correction of reading and written language difficulties. Supervised teaching of individuals and/or small groups experiencing reading and language problems. Apprenticeships in reading instructional program. Pre/co-requisite: Three graduate credits in Reading/Language Arts or Instructor permission.

Credits: 6.00

**EDLT 380 - Professional Problems in Educ**

Credits: 3.00

**EDLT 385 - Critical Issues in Lang&Litrcy**

Explores the relationships between language and literacy and cultural-linguistic influences on language/literacy development. Topics include phonemic awareness, phonics instruction, fluency, comprehension, spelling and writing. Pre/co-requisite: EDLT 222; nine graduate credits in related areas; Instructor permission.

Credits: 3.00

**EDLT 391 - Master's Thesis Research**

Credits: 1.00 to 18.00

**EDLT 397 - Problems in Education**

Credits: 3.00

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## Courses in Materials Science (MATS)

### MATS 391 - Master's Thesis Research

Credits: 1.00 to 18.00

### MATS 491 - Doctoral Dissertation Research

Credits: 1.00 to 18.00



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## Courses in Mathematics (MATH)

### MATH 001 - Elementary College Algebra

Review of fundamental operations and a more extensive study of fractions, exponents, radicals, linear and quadratic equations, ratio, proportion, variation, progressions, and the binomial theorem. Topics normally included in intermediate algebra in high school. Students who have satisfactorily completed two years of high school algebra, or the equivalent, receive no credit for this course. Offered only in Evening Division and Summer Session. Prerequisite: One year of high school algebra.

Credits: 3.00

### MATH 002 - Plane Trigonometry

Trigonometric functions, their graphs and other properties, solution of triangles, trigonometric equations and identities, and inverse trigonometric functions. May not be taken for credit concurrently with, or following receipt of, credit for any mathematics course numbered MATH 020 or above. Prerequisite: MATH 001 or MATH 009. Offered only in Evening Division and Summer Session.

Credits: 3.00

### MATH 009 - College Algebra

Sets, relations, and functions with particular attention to properties of algebraic, exponential, and logarithmic functions, their graphs and applications. May not be taken for credit concurrently with, or following receipt of, credit for any mathematics course numbered 19 or above. Prerequisites: Two years of secondary school algebra, one year of secondary school geometry.

Credits: 3.00

### MATH 010 - Pre-Calculus Mathematics

Skills in working with numerical, algebraic, and trigonometric expressions are developed in preparation for MATH 021. May not be taken for credit concurrently



with, or following receipt of, credit for any mathematics course numbered MATH 019 or above. Prerequisite: Two years of secondary school algebra; one year of secondary school geometry.

Credits: 3.00

### **MATH 011 - Technical Calculus I**

Introduction to calculus of functions of one variable, emphasizing techniques and applications of differentiation and integration. Prerequisite: MATH 010 or MATH 009 and MATH 002, or strong background in secondary school algebra and trigonometry; an associates degree in engineering. Dual credit not given for MATH 011 and MATH 021.

Credits: 3.00

### **MATH 012 - Technical Calculus II**

Transcendental functions, techniques of integration, polar coordinates, sequences, series and vectors. Prerequisite: MATH 011 or MATH 021; associates degree in engineering. Dual credit not given for MATH 012 and MATH 022.

Credits: 3.00

### **MATH 013 - Calculus via Modeling I**

Introduction to mathematical modeling and differential calculus with a graphical, problem-solving approach. Requires graphing calculator. Prerequisite: Three years high school math, or MATH 009. Credit not given for both MATH 013 and MATH 019.

Credits: 3.00

### **MATH 014 - Calculus via Modeling II**

Further modeling and an introduction to integral and multivariate calculus with a graphical, problem-solving approach. Requires graphing calculator. Credit not given for both MATH 014 and MATH 020. Prerequisite: MATH 013.

Credits: 3.00

### **MATH 015 - Elementary School Math**

Comprehension of operations with real numbers, measurements, and informal geometry provide background for algebra, number theory, statistics, probability, compass and ruler constructions, and problem solving. Prerequisite: 15 for 16. Open only to students in elementary education.

Credits: 3.00

### **MATH 016 - Fund Concepts Elem School Math**

Comprehension of operations with real numbers, measurements, and informal geometry provide background for algebra, number theory, statistics, probability, compass and ruler constructions, and problem solving. Prerequisite: 15 for 16. Open only to students in elementary education.

Credits: 3.00

**MATH 017 - Applications of Finite Math**

Introduction to mathematics of finite systems with applications, such as probability, statistics, growth and symmetry, graph theory, fair division and apportionment problems, voting systems. Prerequisite: Two years of secondary school algebra or 9 or 10.

Credits: 3.00

**MATH 018 - Basic Mathematics**

Data, statistics, modeling, algebra, word problems, calculus. Students who do well in the algebra section may continue with MATH 19 or MATH 21. Prerequisites: 3 years high school math. No credit for EM students.

Credits: 3.00

**MATH 019 - Fundamentals of Calculus I**

Introduction to limits and differential calculus with a wide variety of applications. Students interested in intensive use of mathematics should take 21. Credit not given for more than one of the courses 19, 21 unless followed by 22. Credit not given for both Math. 13 and 19. Prerequisite: 9, 10, or sufficiently strong background in secondary school algebra and geometry.

Credits: 3.00

**MATH 020 - Fundamentals of Calculus II**

Introduction to integral calculus with a wide variety of applications. A student who completes MATH 020 may be admitted to MATH 022; however MATH 019, MATH 021, MATH 022 is preferable to MATH 019, MATH 020, MATH 022. Credit not given for both MATH 014 and MATH 020. Prerequisite: MATH 019.\*

Credits: 3.00

**MATH 021 - Calculus I**

Introduction to calculus of functions of one variable including: limits, continuity, techniques and applications of differentiation and integration. Credit not given for more than one course in the pair 19, 21. Prerequisite: 10; or 9 and 2; or strong background in secondary school algebra and trigonometry

Credits: 4.00

**MATH 022 - Calculus II**

Techniques and applications of integration. Polar coordinates, Taylor polynomials, sequences and series, power series. Prerequisite: 21.

Credits: 4.00

**MATH 052 - Fundamentals of Mathematics**

Fundamental mathematical concepts and techniques, emphasizing proofs and algorithms, are investigated within the context of topics such as number theory and graph theory. Credit not given for both 52 and 54. Corequisite: Math 21.

Credits: 3.00

**MATH 054 - Fund of Math of Computation**

Introduction to mathematical theory and techniques underlying computer science.

Co-requisite: MATH 019 or MATH 021.

Credits: 3.00

**MATH 095 - Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Prerequisite: Instructor permission.

Credits: 5.00

**MATH 111 - Technical Calculus III**

Calculus of functions of several variables, partial derivatives, gradient, divergence, curl, multiple integrals. Prerequisite: MATH 012 or MATH 022; associates degree in engineering. Dual credit not given for MATH 111 and MATH 121.

Credits: 3.00

**MATH 121 - Calculus III**

Vectors, vector-valued functions. Calculus of functions of several variables: partial derivatives, gradient, divergence, curl, multiple integrals, line integrals, Stokes' and Green's theorems. Prerequisite: MATH 022.

Credits: 4.00

**MATH 124 - Linear Algebra**

Matrices, linear dependence, vector spaces, linear transformations, characteristic equations and applications. Prerequisite: MATH 022 or Instructor permission. Co-requisite: MATH 121 recommended but not required. .

Credits: 3.00

**MATH 141 - Real Analysis in One Variable**

Principles of analysis in one variable. Heine-Borel and Bolzano-Weierstrass theorems; rigorous development of differential and integral calculus infinite sequences and series of functions. Prerequisite: 52.

Credits: 3.00

**MATH 151 - Groups and Rings**

An introduction to the basic concepts of abstract algebra emphasizing examples, including modular arithmetic, symmetric groups, cyclic groups, polynomial rings, homomorphisms, and isomorphisms. Prerequisite: 52.

Credits: 3.00

**MATH 161 - Development of Mathematics**

Historical development of mathematical sciences emphasizing interrelations among them. Individual assignments correspond to background and interests of students. Prerequisite: Nine hours of college mathematics.

Credits: 3.00

**MATH 162 - Geometry EI&Mid School Teacher**

An informal, investigative approach to geometry. Extensive use of discovery experiences through inductive procedures as opposed to the traditional emphasis on deductive process found in high school geometry. Credit not given for Math. majors in EM. Prerequisite: MATH 015 or a teaching certificate.

Credits: 3.00

**MATH 167 - Physical Chemistry Preparation**

Review of relevant mathematical and physical concepts as applied to physical chemistry. Credit cannot be obtained for both MATH 167 and MATH 121. Not available for credit for E&M students. Prerequisite: MATH 022; CHEM 032 or CHEM 036. Cross-listed with: CHEM 167.

Credits: 1.00

**MATH 173 - Basic Combinatorial Theory**

Introduction to basic combinatorial principles emphasizing problem-solving techniques. Enumeration, Generating Functions, Fibonacci Numbers, Pigeonhole Principle, Inclusion-Exclusion, and Graph Theory. Prerequisite: 52 or 54.

Credits: 3.00

**MATH 179 - Teaching Secondary School Math**

Contemporary secondary school mathematics curricula, their content from an advanced standpoint, unifying mathematical concepts and their implications at various levels, and introduction of selected mathematical topics. Intended only for students with an interest in teaching secondary school mathematics. Not acceptable as part of any mathematics requirement for a degree. Prerequisite: EDEC 178; acceptance to teacher education, or Instructor permission.

Credits: 3.00

**MATH 191 - Special Topics**

An approved project under guidance of a staff member and culminating in a written report. Involvement with off-campus groups permitted. Prerequisite: Junior/ Senior standing; approval of Department Chair.

Credits: 3.00

**MATH 193 - College Honors**

Credits: 3.00

**MATH 195 - Special Topics**

Credits: 4.00

**MATH 207 - Probability Theory**

(Same as Statistics 251.)

Credits: 3.00

**MATH 221 - Deterministic Models in Operations Research**

The linear programming problem. Simplex algorithm, dual problem, sensitivity analysis, goal programming. Dynamic programming and network problems.

Prerequisites: 124; 121 desirable.

Credits: 3.00

**MATH 222 - Stochastic Models in Operations Research**

Development and solution of some typical stochastic models. Markov chains, queueing problems, inventory models, and dynamic programming under uncertainty. Prerequisite: MATH 207, STAT 151, or Instructor permission.

Credits: 3.00

**MATH 224 - Analysis of Algorithms**

(Same as Computer Science 224.)

Credits: 3.00

**MATH 230 - Ordinary Differential Equations**

Solutions of linear ordinary differential equations, the Laplace transformation, and series solutions of differential equations. Prerequisite: MATH 121. Corequisite: MATH 124 or Instructor permission. Credit not granted for more than one of the courses MATH 230 or MATH 271.

Credits: 3.00

**MATH 236 - Calculus of Variations**

Necessary conditions of Euler, Legendre, Weierstrass, and Jacobi for minimizing integrals. Sufficiency proofs. Variation and eigenvalue problems. Hamilton-Jacobi equations. Prerequisite: 230. Alternate years, 1997-98.

Credits: 3.00

**MATH 237 - Intro to Numerical Analysis**

Error analysis, root-finding, interpolation, least squares, quadrature, linear equations, numerical solution of ordinary differential equations. Prerequisite: MATH 121, MATH 124 or MATH 271; Knowledge of computer programming.

Credits: 3.00

**MATH 238 - Numerical Differential Equations**

Numerical solution of differential equations: initial-value and boundary-value problems; finite difference and finite element methods. Prerequisite: 237, either 230 or 271 recommended.

Credits: 3.00

**MATH 240 - Fourier Series and Integral Transforms**

Fourier series, orthogonal functions, integral transforms and boundary value problems. Prerequisite: MATH 230 or MATH 271.

Credits: 3.00

**MATH 241 - Anyl in Several Real Vars I**

Properties of the real numbers, metric spaces, infinite sequences and series, continuity. Prerequisites: 52, 121, 124 or instructor's permission.

Credits: 3.00

**MATH 242 - Anyl Several Real Variables II**

Differentiation in  $R^n$ , Riemann-Stieltjes integral, uniform convergence of functions, Inverse and Implicit Function Theorems. Prerequisite: 241.

Credits: 3.00

**MATH 243 - Theory of Computation**

(Same as Computer Science 243.)

Credits: 3.00

**MATH 251 - Abstract Algebra I**

Basic theory of groups, rings, fields, homomorphisms, and isomorphisms.

Prerequisite: MATH 052, MATH 124, or Instructor permission.

Credits: 3.00

**MATH 252 - Abstract Algebra II**

Modules, vector spaces, linear transformations, rational and Jordan canonical forms. Finite fields, field extensions, and Galois theory leading to the insolvability of quintic equations. Prerequisite: MATH 251.

Credits: 3.00

**MATH 255 - Elementary Number Theory**

Divisibility, prime numbers, Diophantine equations, congruence of numbers, and methods of solving congruences. Prerequisite: MATH 052 or MATH 054.

Credits: 3.00

**MATH 257 - Topics in Group Theory**

Topics may include abstract group theory, representation theory, classical groups, Lie groups. Prerequisite: 251. Alternate years, 2000-01.

Credits: 3.00

**MATH 260 - Foundations of Geometry**

Geometry as an axiomatic science; various non-Euclidean geometries; relationships existing between Euclidean plane geometry and other geometries; invariant properties. Prerequisite: MATH 052 or MATH 054.

Credits: 3.00

**MATH 264 - Vector Analysis**

Gradient, curl and divergence, Green, Gauss, and Stokes Theorems, applications to physics, tensor analysis. Prerequisite: MATH 121, MATH 124, or MATH 271.

Credits: 3.00

**MATH 266 - Chaos,Fractals&Dynamical Syst**

Discrete and continuous dynamical systems, Julia sets, the Mandelbrot set, period doubling, renormalization, Henon map, phase plane analysis and Lorenz equations. Corequisite: 271 or 230 or instructor's permission.

Credits: 3.00

**MATH 268 - Mathematical Biology&Ecology**

Mathematical modeling in the life sciences. Topics include population modeling, dynamics of infectious diseases, reaction kinetics, wave phenomena in biology, and biological pattern formation. Prerequisites: 124, 230; or instructor's permission.

Credits: 3.00

**MATH 271 - Appl Math for Engr&Scientists**

Matrix theory, linear ordinary differential equations. Emphasis on methods of solution, including numerical methods. Co-requisite: 121. No credit for mathematics majors. Credit not granted for more than one of the courses Math. 230 and Math. 271.

Credits: 3.00

**MATH 272 - Applied Analysis**

Partial Differential Equations of Mathematical Physics, Calculus of Variations, Functions of a Complex Variable, Cauchy's Theorem, integral formula. Conformal mapping. Prerequisite: 230 or 271.

Credits: 3.00

**MATH 273 - Combinatorial Graph Theory**

Paths and trees, connectivity, Eulerian and Hamiltonian cycles, matchings, edge and vertex colorings, planar graphs, Euler's formula and the Four Color Theorem, networks. Prerequisite: MATH 052 or MATH 054, or Instructor permission.

Credits: 3.00

**MATH 274 - Numerical Linear Algebra**

Direct and iterative methods for solving linear equations, least square factorization methods, eigenvalue computations, ill-conditioning and stability. Prerequisite: MATH 237.

Credits: 3.00

**MATH 275 - Advanced Engineer Analysis I**

(Same as Mechanical Engineering 304, 305; Civil Engineering 304, 305.)

Prerequisites: 271 or 230; 275 for 276.

Credits: 3.00

**MATH 276 - Adv Engineering Analysis II**

(Same as Mechanical Engineering 304, 305; Civil Engineering 304, 305.)

Prerequisites: 271 or 230; 275 for 276.

Credits: 3.00

**MATH 278 - Intro Wavelets & Filter Banks**

Continuous and discrete-time signal processing. Continuous wavelet transform. Series expansion of continuous and discrete-time signals. Perfect reconstruction, orthogonal and biorthogonal filter banks. Wavelets from filter. Pre/co-requisites: 171, or instructor permission. Cross-listing: EE 274.

Credits: 3.00

**MATH 283 - Junior-Senior Seminar**

Students required to give presentations on selected topics. Prerequisite: Instructor permission.

Credits: 1.00

**MATH 293 - Undergraduate Honors Thesis**

Program of reading and research culminating in written thesis and oral presentation. Honors notation appears on transcript and Commencement Program. Contact department chairperson for procedures. (Not offered for graduate credit.)

Credits: 8.00

**MATH 294 - Undergraduate Honors Thesis**

Program of reading and research culminating in written thesis and oral presentation. Honors notation appears on transcript and Commencement Program. Contact department chairperson for procedures. (Not offered for graduate credit.)

Credits: 3.00

**MATH 295 - Special Topics**

For advanced students in the indicated fields. Lectures, reports, and directed readings on advanced topics. Prerequisite: Instructor permission. Credit as arranged. Offered as occasion warrants.

Credits: 4.00

**MATH 330 - Adv Ordinary Diff Equations**

Linear and nonlinear systems, approximate solutions, existence, uniqueness, dependence on initial conditions, stability, asymptotic behavior, singularities, self-adjoint problems. Prerequisite: MATH 230.

Credits: 3.00

**MATH 331 - Theory of Func of Complex Var**

Differentiation, integration, Cauchy-Riemann equations, infinite series, properties of analytic continuation, Laurent series, calculus of residues, contour integration, meromorphic functions, conformal mappings, Riemann surfaces. Prerequisite: MATH 242.

Credits: 4.00



**MATH 332 - Approximation Theory**

Interpolation and approximation by interpolation, uniform approximation in normed linear spaces, spline functions, orthogonal polynomials. Least square, and Chebychev approximations, rational functions. Prerequisite: MATH 124, MATH 237.

Credits: 3.00

**MATH 333 - Theory Functions Real Variables**

The theory of Lebesgue integration, Lebesgue measure, sequences of functions, absolute continuity, properties of LP-spaces. Prerequisite: MATH 242.

Credits: 4.00

**MATH 335 - Advanced Real Analysis**

L<sup>2</sup>-spaces, LP-spaces; Hilbert, Banach spaces; linear functionals, linear operators; completely continuous operators (including symmetric); Fredholm alternative; Hilbert-Schmidt theory; unitary operators; Bochner's Theorem; Fourier-Plancherel, Watson transforms. Prerequisites: MATH 333.

Credits: 3.00

**MATH 339 - Partial Differential Equations**

Classification of equations, linear equations, first order equations, second order elliptic, parabolic, and hyperbolic equations, uniqueness and existence of solutions. Prerequisite: MATH 230; MATH 242.

Credits: 3.00

**MATH 351 - Topics in Algebra**

Topics will vary each semester and may include algebraic number theory, algebraic geometry, and the arithmetic of elliptic curves. Repeatable for credit with Instructor permission. Prerequisite: MATH 252.

Credits: 3.00

**MATH 353 - Point-Set Topology**

Topological spaces, closed and open sets, closure operators, separation axioms, continuity, connectedness, compactness, metrization, uniform spaces. Prerequisite: MATH 241.

Credits: 3.00

**MATH 354 - Algebraic Topology**

Homotopy, Seifert-van Kampen Theorem; simplicial, singular, and Cech homology. Prerequisite: MATH 353.

Credits: 3.00

**MATH 373 - Topics in Combinatorics**

Topics will vary each semester and may include combinatorial designs, coding theory, topological graph theory, cryptography. Prerequisite: MATH 251 or MATH

273; or Instructor permission.

Credits: 3.00

**MATH 382 - Seminar**

Topical discussions with assigned reading. Required of M.S. degree candidates.

Credits: 1.00

**MATH 391 - Master's Thesis Research**

Credits: 5.00

**MATH 395 - Special Topics**

Subject will vary from year to year. May be repeated for credit.

Credits: 6.00

**MATH 491 - Doctoral Dissertation Research**

Credits: 12.00

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## Courses in Mechanical Engineering (ME)

### ME 001 - First-Year Design Experience

Introduction to the engineering profession and design. Hands-on experiences that emphasize interdisciplinary teamwork, technical communications, and project design methodologies. Cross-listed with: EE 001.

Credits: 2.00

### ME 012 - Dynamics

Kinematics and kinetics of particles and rigid bodies in two and three dimensions. Computer-aided analysis. Prerequisite: CE 001, MATH 121.

Credits: 3.00

### ME 014 - Mechanics of Solids

Stress, strain, temperature relationships, torsion, bending stresses and deflections. Columns, joints, thin-walled cylinders. Combined stresses and Mohr's circle.

Prerequisite: CE 001, MATH 121, ME 012, or concurrent enrollment. Cross-listed with: CE 100.

Credits: 3.00

### ME 040 - Thermodynamics

Principles of engineering thermodynamics; applications of these principles to thermodynamic cycles. Credit not allowed for both 40 and 41. Prerequisite: Math 22, Physics 31 with 21.

Credits: 3.00

### ME 042 - Engineering Thermodynamics

Properties and processes of fluids; perfect gases, and approximate relationships for real gases; applications of thermodynamics, principles of combustion, mixtures, power cycles, gas compression, and refrigeration. Prerequisite: 40.

Credits: 3.00

**ME 044 - Heat Transfer**

Introductory treatment of heat transfer by conduction, convection, and radiation.

Co-requisite: ME 040.

Credits: 1.00

**ME 082 - Mech Engineering Lab I**

Computer methods in mechanical engineering. Introduction to scientific programming; solids modeling and stress analysis. Pre/co-requisite: CE 001.

Credits: 3.00

**ME 095 - Special Topics**

One to three hours with instructor's approval.

Credits: 3.00

**ME 101 - Engineering Materials I**

Atomic structure, crystalline structure, mechanical properties of metals; testing of materials, multicomponent systems, phase equilibria, processing metals, polymers, composite materials, ceramics and glass corrosion. Prerequisite: 14.

Credits: 3.00

**ME 111 - System Dynamics**

Modeling of systems with mechanical, electrical, fluid, and thermal elements.

Linear systems analysis. Response of vibratory and feedback systems. Computer simulation. Prerequisite: 12.

Credits: 3.00

**ME 114 - Intro Engineering Mechanics**

Introduction to statics, dynamics, fluid mechanics, strength of materials, thermodynamics. Prerequisite: Junior standing in engineering or physical sciences.

Credits: 3.00

**ME 123 - Mechanical Engineering Lab II**

Engineering measurements, data analysis and theory of experimentation.

Experiments with fluids and material testing machines and instrumentation for dynamic measurements. Corequisite: 143.

Credits: 2.00

**ME 124 - Mechanical Engineering Lab III**

Engineering measurements, data analysis and theory of experimentation.

Experiments with fluids and material testing machines and instrumentation for dynamic measurements. Corequisite: 143.

Credits: 2.00

**ME 143 - Fluid Mechanics**

Fluid pressure distributions; integral control volume systems; differential relations

for a fluid particle; dimensional similarity; viscous flow in ducts; boundary layer flows; inviscid incompressible flows. Prerequisites: 12, 42.

Credits: 3.00

**ME 144 - Heat Transfer**

One- and two-dimensional steady and unsteady thermal conduction; natural and forced internal and external convection; thermal radiation; heat exchangers; boiling and condensation heat transfer. Prerequisite: ME 143.

Credits: 3.00

**ME 150 - The Engineering Profession**

Professional practice of engineering. Laws, ethics, engineering economy, liability, insurance, and contracts. Prerequisite: Senior standing or Instructor permission.

Credits: 3.00

**ME 161 - Manufacturing Engineering I**

Mechanical and thermal processing of metallic and nonmetallic materials; casting, forming, cutting, grinding, joining, high energy forming, EDM, ECM, Laser, and ultrasonic. Prerequisite: Senior ME standing.

Credits: 3.00

**ME 162 - Manufacturing Engineering II**

Machine tools engineering, flexible manufacturing systems, robotics in manufacturing, automatic factory, computer-aided manufacturing.

Credits: 3.00

**ME 171 - Design of Elements**

Mechanical fatigue criteria, fatigue analysis and design of springs, bolted/welded joints, gearing, shafts, bearings, power transmission. Computer-aided design and analysis. Prerequisite: Junior standing; ME 014.

Credits: 4.00

**ME 172 - Design of Systems**

Design synthesis and optimization; probabilistic aspects in design; expert systems in design. Prerequisite: ME 171.

Credits: 3.00

**ME 174 - Industrial Design Project**

Design projects from industry. Prerequisite: ME 171.

Credits: 1.00

**ME 183 - Mechanical Engineering Lab IV**

Advanced engineering experimentation, data collection and reduction techniques applied to areas of mechanical engineering; projects involving "design for manufacturing" of a specified product. Prerequisite: Senior standing in Mechanical Engineering.

Credits: 3.00

**ME 185 - Senior Project**

An individual engineering study designed to particular interest of the student, utilizing and synthesizing the student's total mechanical engineering educational experience. Prerequisite: Senior standing.

Credits: 3.00

**ME 186 - Senior Project**

An individual engineering study designed to particular interest of the student, utilizing and synthesizing the student's total mechanical engineering educational experience. Prerequisite: Senior standing.

Credits: 3.00

**ME 191 - Senior Thesis**

Investigation of a research or design project under supervision of assigned staff member culminating in acceptable thesis. Prerequisite: Senior standing; department permission.

Credits: 3.00

**ME 193 - College Honors**

Credits: 3.00

**ME 194 - College Honors**

Credits: 3.00

**ME 195 - Special Topics**

Prerequisite: Senior standing in Civil or Mechanical Engineering.

Credits: 4.00

**ME 203 - Machinery Analysis & Synthesis**

Kinematic and kinetic analysis of two- and three-dimensional machines; kinematic synthesis, electromechanical and servo mechanisms; application to robotic mechanisms. Prerequisite: Senior standing in ME.

Credits: 3.00

**ME 207 - Biomechanics I**

Introduction to the structure and mechanics of the musculoskeletal system. Application of mechanics to bone, tendon, ligaments, and other biological materials. Prerequisite: Senior or graduate standing in ME, or instructor permission.

Credits: 3.00

**ME 208 - Biomechanics II**

Introduction to biomaterials and the mechanical behavior of bioviscoelastic fluids or solids. Prerequisite: 207 or instructor permission.

Credits: 3.00

**ME 209 - Biofluid Dynamics**

Fluid dynamics of human physiology. Circulatory and respiratory mechanics, steady and unsteady laminar flow, pulse wave reflections, curved and collapsible tube flow, turbulence. Prerequisite: 143 or equivalent.

Credits: 3.00

**ME 234 - Mechanical Vibrations**

Analysis, measurement, and control of mechanical vibrations; SDOF, MDOF, and rotating systems, forced, free, and random vibrations. Prerequisite: ME 111 or Senior/ Graduate standing in engineering or physical sciences.

Credits: 3.00

**ME 241 - Combustion Processes**

Combustion thermodynamics; chemical kinetics; laminar flames, premixed and diffusion; turbulent flames; ignition, explosion, and detonation; droplet combustion; flame spread; large scale fires; rocket combustion. Prerequisite: Senior/Graduate standing.

Credits: 3.00

**ME 242 - Adv Engr Thermodynamics I**

Foundations of statistical mechanics. Gases and crystals. Chemical equilibrium. Irreversible processes. Prerequisite: Senior/Graduate standing or permission.

Credits: 3.00

**ME 243 - Inviscid Flow**

Eulerian and Lagrangian descriptions of motion. Potential flow. Thin-airfoil theory and numerical methods. Linear wave theory. Flow stability. Linearized subsonic and supersonic flow. Prerequisite: 143.

Credits: 3.00

**ME 244 - Intro to Turbomachinery Anyl**

Fundamental turbomachinery principles of fluid mechanics, thermodynamics, and structural analysis; basic equations and computational techniques for analysis and design to model and evaluate turbomachinery. Prerequisite: ME 243, MATH 271.

Credits: 2.00

**ME 245 - Advanced Heat Transfer I**

Transient heat conduction; integral methods; convection; formulation and solution; boiling, condensation; radiant heat exchange in enclosures and with emitting-absorbing gases, advanced view factors. Prerequisite: Senior standing in ME or instructor's permission.

Credits: 3.00

**ME 246 - Centrifugal Compressors**

Fluid dynamic and thermodynamic principles of centrifugal compressor design and design practice; limits of stable operation and instability prediction and control.

Prerequisite: ME 244.

Credits: 2.00

**ME 247 - Centrifugal Pumps**

Centrifugal pump design principles and practice; performance limits; cavitation; design tools and pump design optimization. Prerequisite: ME 244.

Credits: 2.00

**ME 248 - Turbomachinery Special Topics**

Content in axial fans/compressors; axial, radial, or steam turbines; CFD, dynamics/rotordynamics, or materials for turbo-machinery; power plant or refrigeration cycle developments; turbocharged and compound IC-engines.

Prerequisite: ME 244.

Credits: 2.00

**ME 249 - Computational Fluids Engr**

Computational methods for solving the Navier-Stokes equations and combined thermo-fluid flows; finite-differences and finite-volume techniques; use of standard commercial CFD software. Prerequisites: 143 or equivalent.

Undergraduate/graduate credit.

Credits: 3.00

**ME 252 - Mechanical Behavior Materials**

Elastic and plastic behavior of single crystals; dislocations; approximate plastic analysis; anisotropic materials; hardness; fractures; fatigue; damping; creep and surface phenomena. Prerequisite: 101, permission. Credit given for 252 or 272, not both.

Credits: 3.00

**ME 255 - Adv Engineering Materials**

Phase diagrams. Thermodynamics of crystals, alloys. Defects. Phase transformations. Heat treatment of steels. Prerequisites: Senior or graduate standing, or instructor's permission.

Credits: 3.00

**ME 257 - Composite Materials**

Fibers, matrices. Unidirectional and short fiber composites. Experimental characterization. Prerequisite: 101. Credit given for 257 or 277, not both.

Credits: 3.00

**ME 265 - Integrated Product Developmnt**

(See Business Administration 293.) Prerequisite: Senior standing.

Credits: 3.00



**ME 270 - Structural Dynamics**

Vibrations, matrices, earthquake engineering, stability and wave propagation.

Prerequisites: Senior or graduate standing in engineering or physical sciences, or instructor permission. Cross-listed with CE 272.

Credits: 3.00

**ME 281 - Seminar**

Presentation and discussion of advanced mechanical engineering problems and current developments. Prerequisite: Senior/Graduate engineering enrollment.

Credits: 1.00

**ME 282 - Seminar**

Presentation and discussion of advanced mechanical engineering problems and current developments. Prerequisite: Senior/Graduate engineering enrollment.

Credits: 1.00

**ME 283 - Lab Techniques Turbomach Dev**

Instruments and transducers for performance, flow, and structural measurements in turbo-machinery; the role of test data in design and development; experimental data acquisition and processing. Prerequisite: ME 244.

Credits: 2.00

**ME 285 - Biomedical Engineering Seminar**

Presentation and discussion of advanced biomedical engineering problems and current research developments. Prerequisite: Senior/Graduate engineering enrollment.

Credits: 1.00

**ME 295 - Special Topics**

Content is dictated by expanding professional interest in newly developing, or recently developed, technical areas in which there is particular need or opportunity. Prerequisite: Senior/Graduate standing.

Credits: 6.00

**ME 301 - Intro Biomedical Engineering**

Introduction to basic biomedical engineering science; biomedical computing and pattern recognition, biomedical instrumentation and signal analysis, biomechanics, biomaterials, rehabilitation engineering, physiological transport phenomena, intelligent systems.

Credits: 3.00

**ME 304 - Adv Engineering Analysis I**

Problems in analysis in engineering, including ordinary and partial differential equations, special functions, matrices, tensor analysis, variational calculus, complex variables, perturbation methods. Prerequisites: Math. 271 or Math. 230; ME 304 for ME 305. Cross-listings: CE 304, 305; Math 275, 276.

Credits: 3.00

**ME 305 - Adv Engineering Analysis II**

Problems in analysis in engineering, including ordinary and partial differential equations, special functions, matrices, tensor analysis, variational calculus, complex variables, perturbation methods. Prerequisites: Math. 271 or Math. 230; ME 304 for ME 305. Cross-listings: CE 304, 305; Math 275, 276.

Credits: 3.00

**ME 321 - Special Problems in Fluid Mech**

Advanced topics in fluid mechanics in which there is a particular student and staff interest.

Credits: 3.00

**ME 323 - Special Prob in Thermodynamics**

Advanced topics in thermodynamics in which there is a particular student and staff interest.

Credits: 3.00

**ME 325 - Special Problems in Materials**

Advanced topics in behavior of materials in which there is a particular student and staff interest.

Credits: 3.00

**ME 330 - Matrix Meth in Struct Dynamics**

Matrices, eigenvalue problems, forced vibration, wave propagation.

Credits: 3.00

**ME 333 - Stress Analysis**

Theory and experimental method of measuring static and dynamic stress and strain.

Credits: 3.00

**ME 336 - Continuum Mechanics**

Tensors, conservation laws, field equations for solids and fluids.

Credits: 3.00

**ME 338 - Advanced Dynamics**

Application of Lagrange's equation, Hamilton's principle to mechanical systems. Systems with constraints. Matrix formulation of problems in kinematics, dynamics. Stability of linear, nonlinear systems.

Credits: 3.00

**ME 343 - Advanced Fluid Dynamics**

Stress in continuum; kinematics, dynamics; potential fields; Wing theory; Navier-Stokes equation; hydrodynamic stability; turbulence; laminar, turbulent boundary

layer theory; transient flows; free laminar, turbulent flows; mixing.

Credits: 3.00

**ME 344 - Adv Eng Thermodynamics II**

Microscopic thermodynamics; Maxwell-Boltzmann, Bose-Einstein, Fermi-Dirac statistics; kinetic theory of gases; transport properties, compressed gases, liquids, solid states; chemical systems; irreversible processes; fluctuations.

Credits: 3.00

**ME 345 - Advanced Heat Transfer II**

Generalized equation of heat conduction; classical integral transforms, approximate solutions; thermal boundary layers; forced and free convection; condensation, boiling, ablative cooling; radiation, statistical theory; mass transfer.

Credits: 3.00

**ME 346 - Advanced Gas Dynamics**

Compressible flow in ducts; friction, heat transfer; shock waves; small perturbation theory; high speed flows; transonic, supersonic, hypersonic flows; methods of characteristics. Aerodynamic heating; rarified gas flows.

Credits: 3.00

**ME 371 - Adv Engr Des Anyl&Synthesis I**

Application of fundamental concepts, principles of advanced mathematics, physics, mechanics, electricity, thermodynamics, fluid dynamics, heat transfer, and decision-making processes to design, analysis, synthesis of complex engineering systems.

Credits: 4.00

**ME 372 - Systems Engineering**

Advanced course in systems engineering, reliability, maintainability, safety, and human factors engineering. Case studies. Prerequisites: ME 371 or Instructor permission.

Credits: 3.00

**ME 373 - Integr Mechanism Design Anyl**

Application of system analysis, rigid body dynamics, finite elements, fatigue analysis and structural dynamics to an integrated approach to mechanisms design. Prerequisites: ME 371 or Instructor permission.

Credits: 3.00

**ME 391 - Master's Thesis Research**

Credits: 3.00

**ME 395 - Advanced Special Topics**

Advanced topics in recently developed technical areas. Prerequisites: three hours with Instructor permission.

Credits: 3.00

**ME 491 - Doctoral Dissertation Research**

Credits: 0.00 to 18.00

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## Courses in Medical Lab & Radiation Sci (MLRS)

### **MLRS 001 - First Year Seminar**

Discussion of relevant issues in the Biomedical Sciences. Topics include public health, cancer prevention, radiation science, and health and well-being. S/U grading.

Credits: 1.00

### **MLRS 003 - Medical Terminology**

Terminology related to medical science and hospital services

Credits: 2.00

### **MLRS 034 - Human Blood Cell Biology**

Lecture and laboratory experiences in cells of the blood, their quantitation, physiology, and alterations in disease.

Credits: 4.00

### **MLRS 054 - Principles of Microbiology**

Lectures and laboratory experiences dealing with the structure, physiology, and control of microorganisms, in particular those of medical importance.

Credits: 4.00

### **MLRS 095 - Special Topics**

Credits: 4.00

### **MLRS 096 - Special Topics**

Credits: 3.00

### **MLRS 110 - Phlebotomy I**

Basic techniques in blood collection, including choice of anticoagulants, equipment, sterility, and protection from blood-borne pathogens.

Credits: 1.00

**MLRS 111 - Phlebotomy II**

Advanced techniques in blood collection, including choice of anticoagulants, equipment, sterility, and protection from blood-borne pathogens. Pre/co-requisites: MLRS 110.

Credits: 1.00

**MLRS 120 - Health Care Ethics**

A study of ethical principles and applications used to help resolve dilemmas in health care delivery. Introduction to ethical decision-making models used in the practice of modern health care.

Credits: 3.00

**MLRS 123 - Instrumental Analysis**

Lectures and laboratory experiences introduce basic principles in the quantitative analysis; test results are correlated with clinical case studies. Pre/co-requisite: CHEM 023, or CHEM 031 and CHEM 032.

Credits: 4.00

**MLRS 140 - Radiation Science**

Introduction to ionizing radiation, emphasizing its interaction with matter, its effect on the human body, and methods of protecting patients and technologists. Pre/co-requisites: MATH 10 or 19.

Credits: 4.00

**MLRS 195 - Special Topics**

Credits: 3.00

**MLRS 196 - Special Topics**

Credits: 3.00

**MLRS 242 - Immunology**

Lecture dealing with cellular and humoral immunity, B cells and T cells, autoimmunity, immunodeficiency. Pre/co-requisites: One Semester of Biochemistry.

Credits: 3.00

**MLRS 244 - Immunology Lab**

Laboratory experience dealing with cellular and humoral immunity, B cells and T cells, autoimmunity, immunodeficiency. Laboratory covers immunological techniques and applications. Pre/co-requisites: One Semester Biochemistry.

Credits: 1.00

**MLRS 281 - Applied Molecular Biology**

Lecture and laboratory course focused on application of molecular biology

techniques to diagnostic testing and biotechnology. Pre/co-requisites: CHEM 42 or 141.

Credits: 4.00

**MLRS 289 - Research Writing & Design**

Creating written research papers on selected topics and presenting the results to the class in a seminar format.

Credits: 3.00

**MLRS 291 - Honors:Med Lab & Radiation Sci**

Contact the Department for specific requirements.

Credits: 3.00

**MLRS 292 - Honors:Med Lab & Radiation Sci**

Contact the Department for specific requirements.

Credits: 3.00

**MLRS 295 - Prin of Education & Management**

Introduction to theories of education and management. Pre/co-requisites: 3rd Year Standing.

Credits: 3.00

**MLRS 299 - Special Topics**

Courses or seminars beyond scope of existing departmental offerings.

Prerequisite: Department permission.

Credits: 6.00

**MLRS 391 - Masters Thesis Research**

Pre/co-requisite: Instructor Permission.

Credits: 1.00 to 6.00

**MLRS 395 - Advanced Topics**

Pre/co-requisite: Instructor Permission.

Credits: 3.00

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## Courses in Medical Laboratory Science (MLS)

### **MLS 220 - Clinical Practicum: Chemistry**

Experiences with chromatography, immunoassays, random access analyses, and a variety of manual and automated test systems. MLS majors only. Fall, spring.

Credits: 4.00

### **MLS 222 - Clinical Chemistry**

Two-part course detailing testing techniques including chromatography, electrophoresis, nephelometry, electrochemistry, and automation; clinical case studies on the pathophysiology of diseases when abnormal chemistry test results are present. Lab focuses on troubleshooting and problem solving. Prerequisite: BOC 212 Spring.

Credits: 4.00

### **MLS 230 - Clinical Practicum: Hematology**

Experiences in clinical analysis of blood cells in the FAHC laboratories. MLS majors only. Fall, spring.

Credits: 3.00

### **MLS 231 - Hematology**

Advanced theory and analysis of blood cell physiology and related pathology. Concepts of hemostasis and clinical assessment methods. Fall.

Credits: 4.00

### **MLS 250 - Clin Practicum: Microbiology**

Practical experiences at Fletcher Allen Health Care. MLS majors only. Fall, spring.

Credits: 3.00

### **MLS 255 - Clinical Microbiology**

Advanced instruction in the study of clinically significant microorganisms, infectious



disease process, and laboratory methods used for isolation and identification of microorganisms from clinical specimens. Fall. Prerequisite: One semester of microbiology.

Credits: 4.00

**MLS 260 - Clin Pract:Immunohematology**

Clinical experiences in operation of a hospital transfusion service and regional reference laboratory. MLS majors only. Fall, spring.

Credits: 3.00

**MLS 262 - Advanced Immunohematology**

Advanced theory and experience related to human blood groups and transfusion practice. Prerequisites: Immunology

Credits: 4.00

**MLS 292 - Topics in Medical Lab Science**

Seminar on advanced topics in the practice of Medical Laboratory Science.

Credits: 3.00

**MLS 295 - Special Topics**

Credits: 12.00



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## Courses in Micr & Molecular Genetics (MMG)

### **MMG 065 - Microbiology & Pathogenesis**

Overview of microbiology, emphasizing the relationships between the structure, metabolism, and genetics of microorganisms and their roles in nature and in pathogenesis. Prerequisite: One semester chemistry. Not intended for students who have completed BIOL 001 and BIOL 002 or equivalent. Fall.

Credits: 4.00

### **MMG 095 - Special Topics**

Credits: 3.00

### **MMG 096 - Special Topics**

Credits: 3.00

### **MMG 101 - Biology of Microorganisms**

An introduction to the biology of microorganisms, encompassing their diversity, metabolism, pathogenesis, and ecology. Prerequisites: One semester of chemistry and biology, or equivalent, or instructor's permission. Fall.

Credits: 4.00

### **MMG 104 - Intro Recombinant DNA Tech**

Introduction to the basic principles and techniques used in recombinant DNA technology. Pre/co-requisites: BCOR 11/12 and a Microbiology or Molecular Genetics major or minor restriction.

Credits: 2.00

### **MMG 195 - Special Topics**

Prerequisite: Instructor's permission. Credits negotiable.

Credits: 3.00

**MMG 196 - Special Topics**

Prerequisite: Instructor's permission. Credits negotiable.

Credits: 4.00

**MMG 197 - Undergrad Research**

Undergraduate honors students accommodated in individual research projects sponsored by department member. Arrangement with individual department member and department chairperson approval. Credits negotiable.

Credits: 2.00

**MMG 198 - Undergrad Research**

Undergraduate honors students accommodated in individual research projects sponsored by department member. Arrangement with individual department member and department chairperson approval. Credits negotiable.

Credits: 1.00

**MMG 201 - Molecular Cloning Lab**

Intensive advanced laboratory course in the fundamentals of recombinant DNA technology through the isolation and characterization of a unique gene.

Prerequisite: 102 or equivalent. Fall.

Credits: 4.00

**MMG 203 - Mamm Cell Cult:Molecular Biol**

The basic principles and techniques of mammalian cell culture, as well as cell and mammalian molecular genetics. Prerequisite: Permission of coordinator. Alternate years, Spring.

Credits: 4.00

**MMG 205 - Biochemistry I**

Introduction to chemistry and structure of biological macromolecules; examination of mechanisms of chemical processes in biological systems, including enzyme catalysis, biosynthesis, regulation, and information transfer. Prerequisites: CHEM 142 or 144. Crosslisted with BIOC 205 and CHEM 205. UG only. Fall.

Credits: 3.00

**MMG 206 - Biochemistry II**

Continuation of Biochemistry I. Biochemistry of nucleic acids; nucleic acid based processes, such as replication and transcription; cellular information transfer, genomics, and proteomics. Prerequisite: 205. Crosslisted with BIOC 206 and CHEM 206. UG only. Spring.

Credits: 3.00

**MMG 207 - Biochemistry Lab**

Introduction to biochemical tools, including spectrometry, chromatography, and electrophoresis; natural and recombinant enzyme isolation; assays of DNA-modifying enzymes; computer-based structure/function exercises. Corequisites:

205 or 206. Crosslisted with BIOC 207 and CHEM 207. UG only.

Credits: 3.00

**MMG 211 - Prokaryotic Molecular Genetics**

The organization, replication, and expression of genes in prokaryotes, focusing on the genetics of *Escherichia coli* and its viruses. Prerequisite: Introductory microbiology, biochemistry, genetics, and/or cell biology courses. Fall.

Credits: 3.00

**MMG 220 - Environmental Microbiology**

The activities of microorganisms, primarily bacteria, in air, soil, and water.

Prerequisite: A previous course in microbiology. Alternate years.

Credits: 3.00

**MMG 222 - Clinical Microbiology**

Comprehensive study of human pathogenic microorganisms and their disease states in humans, which includes pathogenic bacteriology, medical mycology, and virology. Laboratory sessions provide practical experience in handling and identifying these pathogens. Prerequisite: 65 or 101 or equivalent. Spring.

Credits: 4.00

**MMG 223 - Immunology**

Analysis of the immune response with respect to structure and function of immunoglobulins and the T-cell receptor, tolerance, innate and adaptive immunity, the Major Histocompatibility Complex, hypersensitivity states, transplantation, cancer, and AIDS. Prerequisite: Instructor's permission. Alternate years. Fall.

Credits: 3.00

**MMG 225 - Eukaryotic Virology**

An in-depth analysis of eukaryotic virus-mammalian cell interactions emphasizing mechanisms by which viruses modulate gene expression in infected cells.

Prerequisite: 101 or 102 or equivalent. Alternate years. Fall.

Credits: 3.00

**MMG 231 - Bioinformatics**

Introduction to current topics in bioinformatics. Applications may include sequence alignment, dynamic programming, hidden Markov models, phylogenetics trees, microarray data analysis, genomics, and proteomics. Prerequisites: Instructor's permission; STAT 151, CS 26, and MMG 102 desirable. (Cross-listed with CS 231). Fall.

Credits: 3.00

**MMG 240 - Macromol Struct Prot&Nucl Acid**

Introduction to structural biology and macromolecular structure with an emphasis on protein-protein and protein-nucleic acids interactions. Prerequisites: Biology 1, 2; Organic Chemistry; Junior standing recommended; concentration in Physics.

(Cross-listed with BIOC 240) Alternate years, not approved for graduate credit.  
Spring.  
Credits: 3.00

**MMG 295 - Special Topics**

Supervised investigations in microbiology or molecular genetics. Prerequisite:  
Instructor permission. Credit as arranged.  
Credits: 3.00

**MMG 296 - Special Topics**

Supervised investigations in microbiology or molecular genetics. Prerequisite:  
Instructor permission. Credit as arranged.  
Credits: 3.00

**MMG 302 - Medical Microbiology**

Fundamentals of pathogenic microbiology emphasizing mechanisms of disease  
production and mechanisms of resistance to infection. The ecologic rather than  
taxonomic approach is stressed. Primarily for Medical students. Prerequisite:  
Department permission. Spring.  
Credits: 8.00

**MMG 310 - Current Topics in MMG**

Seminar to focus on specific issues at the forefront of current research in  
molecular genetics. Meetings will involve student presentation and discussion of  
research articles. Prerequisite: Permission of Coordinator.  
Credits: 2.00

**MMG 312 - Eukaryotic Molecular Genetics**

The use of lower eukaryotes, such as the yeasts *Saccharomyces cerevisiae* and  
*Schizosaccharomyces pombe*, as model genetic systems to answer questions of  
basic biological importance. Prerequisites: Instructor permission; MMG 233 and  
CLBI 301, or equivalent.  
Credits: 3.00

**MMG 320 - Cellular Microbiology**

Utilizes primary literature to explore the cellular and molecular basis of microbial  
pathogenesis caused by viruses, pathogenic bacteria and protozoan parasites.  
Alternate years. Spring.  
Credits: 4.00

**MMG 332 - Critical Reading**

Students will participate in group discussions to critically evaluate and interpret the  
experimental data from one assigned paper from the scientific literature per week.  
Prerequisite: Permission of Coordinator. Fall.  
Credits: 1.00

**MMG 352 - Protein:Nucleic Acid Interact**

Structure of DNA and RNA, and the structure and assembly of nucleoprotein complexes will be described using examples from prokaryotes, yeast, viruses, and mammalian cells in culture. Prerequisite: MMG 211 or equivalent; AGBI 201 or BIOC 301; BIOC 302 or equivalent. Cross-listed with: BIOC 352. Alternate years. Spring.

Credits: 3.00

**MMG 391 - Master's Thesis Research**

Credits: 1.00 to 18.00

**MMG 491 - Doctoral Dissertation Research**

Credits: 1.00 to 18.00

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## Courses in Middle Level Teacher Education (EDML)

### EDML 010 - Introduction to Teaching

Orientation to teaching at middle level. Examination of young adolescent students, teachers' roles, middle schooling and the middle school concept. Prerequisites: Admission to Pre-professional teaching education.

Credits: 3.00

### EDML 024 - Learners, Development&Learning

Students learn about the interrelated processes of development and learning throughout childhood but with special emphasis on the approximate ages of ten to fourteen. Prerequisite: EDML 010.

Credits: 3.00

### EDML 055 - Special Topics I

Credits: 3.00

### EDML 056 - Teachers & Teaching Process

Students examine professional responsibilities of middle level teachers as defined by Vermont and national standards via classroom observations. Prerequisite: EDML 010, EDML 024.

Credits: 3.00

### EDML 171 - Teaching Practicum II

Second teaching practicum on a middle level team to learn policy, curriculum, exemplary pedagogy, assessment in second of two academic concentrations defined by student's IDIMC plan. Prerequisite: Admission to Middle Level Professional Program.

Credits: 3.00

### EDML 197 - Readings & Research

Credits: 3.00

**EDML 200 - Contemporary Issues**

Credits: 3.00

**EDML 207 - Adoles Lrng&Beh&Cog Perspect**

Indepth examination of cognitive learning theory and its background in behavioral and other learning theories, with application to teaching in a middle or secondary setting. Pre/co-requisites: Acceptance to licensing program. (Crosslisted with EDSC 207).

Credits: 3.00

**EDML 260 - Teaching Young Adolescents**

Focus on understanding and reflecting on an integrative developmental approach to the design of middle level curriculum, with an emphasis on literacy and numeracy.

Credits: 6.00

**EDML 261 - Middle Level Teaching Pract**

Teaching practicum on middle level team in two areas of academic concentration, acquiring knowledge of and skills in curriculum, pedagogy, and assessment.

Pre/co-requisite: Admission to Middle Level Professional Program.

Credits: 3.00

**EDML 270 - Middle School Org & Pedagogy**

Focuses on exploring theory and practice in responsive school organization for young adolescents, including interdisciplinary/partner teaming, block scheduling, and teacher advisories, as well as teaching lessons in one area of specialization.

Pre/co-requisite: EDML 260, EDML 261.

Credits: 6.00

**EDML 285 - Middle Level Student Teaching**

Full-time supervised student teaching internship as a member of a middle school team. Development of a professional portfolio as stipulated in the Middle Level Program Handbook. Pre/co-requisite: EDML 260, EDML 261, EDML 270, and Instructor permission.

Credits: 12.00

**EDML 286 - Internship Support Seminar**

Seminar addresses and responds to internship experiences including planning, classroom management, team work, and assessment of learning. Guidance in development of Professional Teaching Portfolio. Pre/co-requisites: EDML 260, 261, 270.

Credits: 3.00

**EDML 287 - Literacy & Mathematics**



All middle level teachers are expected to teach reading, writing, literature and mathematics. This course is the capstone for work previously done in these pedagogies. Pre/co-requisite: Successful completion of EDML 260, EDML 261, and EDML 270.

Credits: 3.00

### **EDML 295 - Laboratory Experience**

Credits: 6.00



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## Courses in Military Studies (MS)

### MS 011 - Intro to ROTC & US Army

Discussion of the customs, traditions, branches, organization, as well as the many changes in the roles and missions of the Army of the 21st century. Includes a non-credit laboratory to develop, practice and refine leadership skills in a variety of positions.

Credits: 1.00

### MS 012 - Intro Mil Skills&Followership

Development of basic skills of an Army officer, including navigation and communications. Students are exposed to leadership development exercises during leadership laboratories.

Credits: 1.00

### MS 014 - Orienteering

Basic practical skills such as maps, compass, and environmental awareness. Classroom participation, written exams, and completion of an orienteering course determine student grades. Open to all First-Year and Sophomore students. Cross-listed with: PEAC 014. Fall/Spring.

Credits: 1.00

### MS 017 - Military Fitness

Vigorous workout three days a week designed to build both upper body strength and aerobic ability. Classroom participation and a final Army Physical Fitness Test determine student grades. Open to all First-Year/ Sophomore students. Cross-listed with: PEAC 017. Fall/Spring.

Credits: 1.00

### MS 019 - Backpacking

Techniques of planning and organizing a backpacking trip. Basic instruction

includes clothing, equipment, and environmental awareness. Includes one overnight backcountry trek. Student grades determined by class participation and participation in the practical exercise. Open to all First-Year and Sophomore students. Cross-listed with: PEAC 019. Fall/Spring.

Credits: 1.00

### **MS 021 - Leadership&Team Development**

Learning and application of ethics-based leadership skills that develop individual abilities and contribute to effective team building. Development of oral presentations, writing, and coordination of group efforts. Includes a non-credit laboratory to develop, practice, and refine leadership skills in a variety of positions.

Credits: 2.00

### **MS 022 - Individual&Team Leading**

Techniques for training/counseling others as an aspect of continued leadership development. Includes safety and risk management assessments, and planning for individual and team safety. Includes a non-credit laboratory to develop, practice and refine leadership skills in a variety of positions.

Credits: 2.00

### **MS 131 - Lead&Train Small Organizations**

Series of opportunities to lead small groups, receive personal assessments, and lead in complex situations. Plan and conduct training to develop leadership skills. Prerequisite: Completion of basic course program or basic camp. Includes a non-credit laboratory to develop, practice and refine leadership skills in a variety of positions. Fall.

Credits: 3.00

### **MS 132 - Lead&Manage Small Organization**

Plan for and adapt to the unexpected in organizations under stress. Examine importance of ethical decisions in a positive climate that enhances team performance. Includes a non-credit laboratory to develop, practice and refine leadership skills in a variety of positions. Prerequisite: MS 131. Spring.

Credits: 3.00

### **MS 241 - Ldrshp Challenges&Goal Setting**

Plan, conduct, and evaluate activities. Assess organizational cohesion and develop strategies for improvement. Develop confidence in skills to lead people and manage resources. Includes a non-credit laboratory to develop, practice and refine leadership skills in a variety of positions. Prerequisite: MS 132. Fall.

Credits: 3.00

### **MS 242 - Lead Org Ethically&Competently**

Identify and resolve ethical dilemmas. Refine counseling and motivating techniques. Examine aspects of tradition and law related to leading as an officer in the Army. Includes a non-credit laboratory to develop, practice and refine

leadership skills in a variety of positions. Prerequisite: MS 241. Spring.  
Credits: 3.00

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## Courses in Molecular Physiology & Biophysics (MPBP)

### MPBP 191 - Undergraduate Research

Individual laboratory research under guidance of faculty member. Prerequisite: Department permission.  
Credits: 3.00 or 6.00

### MPBP 201 - Human Physiology & Exercise

A comprehensive, in-depth presentation of the scientific basis of human function. Primarily for Physical Therapy students; a limited number of others may be admitted with permission. Prerequisites: Chemistry 23 and 42 or equivalent, two semesters general physics, one semester mathematics, permission. UG only.  
Credits: 3.00

### MPBP 202 - Human Physiology & Exercise

A comprehensive, in-depth presentation of the scientific basis of human function. Primarily for Physical Therapy students; a limited number of others may be admitted with permission. Prerequisites: Chemistry 23 and 42 or equivalent, two semesters general physics, one semester mathematics, permission. UG only.  
Credits: 3.00

### MPBP 301 - Medical Physiology

Function in the whole human organism, and at the cellular, tissue, and organ levels, considered biologically and physically. Prerequisite: Permission of department chair.  
Credits: 8.00

### MPBP 302 - Neuroscience

A correlated presentation of the neuroanatomy and neurophysiology of mammalian CNS. Same course as Anatomy 302. Prerequisite: Permission. Anatomy and Physiology staff.

Credits: 4.00

**MPBP 303 - Critical Reading**

Critical reading of the current literature, team taught by the faculty in the Dept. of Molecular Physiology & Biophysics, giving broad exposure to the expertise present in the department.

Credits: 1.00

**MPBP 308 - Biometrics & Applied Statistic**

Introduction to the rational use and evaluation of statistical methods in planning experiments and interpreting biological data. Biometrics laboratory included. Course limited to 12 students. Prerequisites: Math. 110 or equivalent, and permission. Fall.

Credits: 5.00

**MPBP 310 - Molecular Basis Biol Motility**

Molecular basis of muscle contraction, and cellular motility. Topics include: muscle energetics and mechanics, biochemistry of motility, and regulation of contractile proteins. Lectures and conferences. Prerequisites: MPBP 301; BIOC 301, BIOC 302; Instructor permission. Alternate years.

Credits: 3.00

**MPBP 323 - Biophysical Techniques**

In depth analysis of biophysical techniques. Topics: Introductory statistics, optics, microscopy, motility, optical tweezers, FRET, light-scattering, SAXS and electron microscopy (single-particles, 2 D-crystals, helices). Alternate years. Pre/co-requisite: Basic mathematics including matrices, differentiation and integration.

Credits: 4.00

**MPBP 381 - Seminar**

Presentation and discussion by advanced students, staff, and invited speakers, of current topics in physiology. No credit will be given, but students are expected to participate.

Credits: 1.00

**MPBP 391 - Master's Thesis Research**

Credits: 1.00 to 18.00

**MPBP 491 - Doctoral Dissertation Research**

Credits: 1.00 to 18.00



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## Courses in Movement Science & Rehab (MVSR)

### **MVSR 300 - Research Tutorial**

Through seminars, actual research participation, informal discussions, and individual advisement, the student will develop a proposal for thesis research. Explore instrumentation, experimental design, and logistics of research.

Credits: 1.00 to 3.00

### **MVSR 304 - Prof Practice Practicum**

Practicum experience in a clinical specialty, teaching, management or consultation. Companion seminar to analyze and assess practicum experience. Prerequisite: PA 312, PA 315 or PA 395.

Credits: 2.00

### **MVSR 311 - Motor Funct&Dysfunction Muscle**

Structure, function, biomechanics, plasticity, measurement of muscle characteristics, muscle performance in relation to development, aging, nutrition, activity, pathology, elasticity, viscosity and responses to therapeutic interventions.

Credits: 3.00

### **MVSR 381 - Special Topics Seminar**

Topics of interest to graduate physical therapists based on theory, research or advanced practice. Content will go beyond the scope of existing courses or thesis research. May be repeated for credit. Prerequisite: Advisor and Instructor permission.

Credits: 3.00

### **MVSR 391 - Master's Thesis Research**

Credits: 1.00 to 12.00

### **MVSR 397 - Special Readings & Research**

Directed individual study of areas not appropriately covered by existing courses.

Prerequisite: Advisor and sponsoring faculty permission.

Credits: 1.00 to 3.00





## 2005-06 Online Catalogue

### :: Academics

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## Courses in Music (MU)

### **MU 001 - Intro to Classical Music**

A survey of musical styles from Medieval Gregorian chant to the present. No prerequisite. May not be counted toward the major/minor.

Credits: 3.00

### **MU 004 - Sound, Sense, and Ideas**

A writing-intensive course, exploring topics in Western, non-Western, folk, art, or popular repertoires. See Schedule of Courses for specific topics. Usually offered as a TAP course. No prerequisite. May not be counted toward the major/minor.

Credits: 3.00

### **MU 005 - Introduction to Jazz History**

Survey of jazz from its roots in ragtime and blues of the late nineteenth century to contemporary styles. Prerequisite: Ability to read music, or permission of instructor.

Credits: 3.00

### **MU 006 - American Music**

Survey of American music from the Pilgrims to the present. Folk, popular, and classical music. Vernacular and cultivated traditions. No prerequisites.

Credits: 3.00

### **MU 007 - Intro to World Music Cultures**

Survey of Sub-Saharan, Indian, Indonesian, Latin and Native American, and Middle Eastern music through readings, recordings, and hands-on study of indigenous percussion instruments. No prerequisite.

Credits: 3.00

### **MU 021 - Beginning Group Lessons**

Group lessons at beginning level in voice and various instruments. No prerequisites. May not be counted toward the major. May be repeated for credit.  
Credits: 1.00

**MU 022 - Group Piano**

Intermediate group lessons in piano. Prerequisite: Ability to read music; proficiency on another instrument or voice. May not be repeated for credit.  
Credits: 1.00

**MU 023 - Group Piano**

Advanced group lessons in piano. Scales, chords, sight-reading, chorales, and repertory. Course culminates in Piano Proficiency Exam. Prerequisites: MU 022, or Instructor permission. May be repeated for credit.  
Credits: 1.00

**MU 024 - Group Jazz Piano I, II**

Classroom instruction of jazz piano techniques (chord voicing, "comping", basic improvisations, etc.) for non-piano majors.  
Credits: 1.00

**MU 025 - Group Jazz Piano I, II**

Classroom instruction of jazz piano techniques (chord voicing, "comping", basic improvisations, etc.) for non-piano majors.  
Credits: 2.00

**MU 033 - Applied Lessons**

Private instruction in an instrument or voice for non-majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to music majors/minors. Juried examinations generally every second semester of study.  
Credits: 1.00

**MU 034 - Applied Lessons**

Private instruction in an instrument or voice for non- majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to music majors/minors. Juried examinations generally every second semester of study.  
Credits: 1.00 or 2.00

**MU 051 - Exploring Music**

Fundamentals of music notation, rhythm, melody, scales, and harmony. A course for non-majors or for students preparing to enter MU 053 and MU 055. May not be counted toward the major.  
Credits: 3.00

**MU 053 - Harmony and Form I**

Study through writing and analysis of diatonic harmony, melodic elaboration and chromatic inflection, two-and three-partite forms, and variation procedures. With accompanying lab. Prerequisite: Basic piano and music reading facility, determined by placement test.

Credits: 3.00

**MU 054 - Harmony and Form Lab I**

Intensive study of solfege (music reading), elementary keyboard harmony, dictation. Prerequisite: Basic piano and music reading facility, determined by placement test.

Credits: 1.00

**MU 055 - Harmony and Form II**

Study of chromatic harmony (modulation, sequence, applied seventh chords), and variation, sonata, and rondo forms. With accompanying lab. Prerequisite: MU 053 and MU 054, or Instructor permission.

Credits: 3.00

**MU 056 - Harmony and Form Lab II**

Intensive study of solfege (music reading), intermediate keyboard harmony, dictation. Prerequisite: 54, or instructor's permission; piano skill equivalent to Music 23 (Group Piano).

Credits: 1.00

**MU 060 - Intro to Music Technology**

Survey of MIDI and digital audio sequencing, notation, accompaniment, and multimedia software for music composition/arranging, performance, and pedagogy, including survey of pedagogical music software. Prerequisite: Music 53, and permission of instructor.

Credits: 3.00

**MU 076 - Brass Methods**

Class instruction on trumpet, trombone, and horn including materials and procedures for teaching these instruments in elementary and secondary schools.

Credits: 2.00

**MU 077 - String Methods**

Develop basic technical proficiency on violin, viola, cello, and double bass. Emphasis on beginning pedagogy, and teaching string instruments in a classroom setting.

Credits: 2.00

**MU 078 - Woodwind Methods**

Class instruction on flute, clarinet, saxophone and oboe/bassoon including materials and procedures for teaching these instruments in elementary and secondary schools.

Credits: 2.00

**MU 079 - Percussion Methods**

Class instruction of various orchestral pitched and unpitched percussive instruments including materials and procedures for teaching these instruments in the elementary and secondary schools.

Credits: 2.00

**MU 080 - Vocal Pedagogy**

Foundation course in applied singing, and in teaching singing. Intended for students in music education, and students intending to teach private singing lessons or lead choirs.

Credits: 2.00

**MU 085 - Intro to Music Education**

Introduction to the issues of public school education. Emphasis on the development of instructional planning.

Credits: 3.00

**MU 095 - Introductory Special Topics**

Courses on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. No prerequisite. May be counted toward the major/minor with Instructor permission.

Credits: 3.00

**MU 096 - Introductory Special Topics**

Courses on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. No prerequisite. May be counted toward the major/minor with Instructor permission.

Credits: 3.00

**MU 105 - Introduction to Jazz History**

Survey of jazz from its roots in ragtime and blues of the late nineteenth century to contemporary styles. Includes research projects. Prerequisite: Ability to read music, or permission of instructor.

Credits: 3.00

**MU 106 - American Music**

Survey of American music from the Pilgrims to the present. Folk, popular, and classical music. Vernacular and cultivated traditions. Includes research projects.

Credits: 3.00

**MU 107 - Intro to World Music Cultures**

Survey of Sub-Saharan, Indian, Indonesian, Latin and Native American, and Middle Eastern music through readings, recordings, and hands-on study of indigenous percussion instruments. Includes research projects.

Credits: 3.00

**MU 111 - Music History & Literature I**

Survey of musical styles through the Baroque. Prerequisite: Music 053-056.  
(Music 001 is strongly recommended.) Majors/minors, or instructor's permission.  
Credits: 3.00

**MU 112 - Music History & Literature II**

Survey of musical styles from 1750 to the present. Prerequisite: Music 053-056.  
(Music 001 is strongly recommended.) Majors/minors, or instructor's permission.  
Credits: 3.00

**MU 113 - Seminar in Ethnomusicology**

See Schedule of Courses for specific topics. Prerequisite: MU 007 or MU 107;  
Instructor permission.  
Credits: 3.00

**MU 121 - Concert Band**

Concert Band is open to all students. Repertory is chosen from the standard  
literature as well as contemporary music. Prerequisite: Audition.  
Credits: 1.00

**MU 122 - University Concert Choir**

Mixed SATB choir. Performing choral masterworks from the baroque period to the  
present. Open to all students.  
Credits: 1.00

**MU 123 - Orchestra**

Full orchestra comprising strings, woodwinds, brass, and percussion. All university  
students may audition. Several performances each year.  
Credits: 1.00

**MU 124 - Jazz Band**

Exploration of classic big band repertory and works of contemporary composers  
and arrangers. Performance in one major concert every semester and occasional  
appearances off campus. Prerequisite: Audition.  
Credits: 1.00

**MU 125 - Vermont Wind Ensemble**

Vermont Wind Ensemble is a select group, open to all students. Repertory is  
chosen from the standard literature as well as contemporary music. Prerequisite:  
Concurrent enrollment in MU 121; audition.  
Credits: 1.00

**MU 126 - Accompanying**

Lessons in piano accompanying for soloists, taught by piano and

instrumental/vocal faculty. Juried performance expected.

Credits: 1.00

**MU 127 - University Catamount Singers**

Mixed, select SATB chamber choir. Performing vocal music from the medieval period to the present. Open to all students. Prerequisite: Audition.

Credits: 1.00

**MU 128 - Opera Workshop**

Study and performance of scenes from the operatic and musical theater repertory for the stage actor/actress.

Credits: 2.00

**MU 129 - Percussion Ensemble**

Percussion ensemble is open to all students. Repertory is chosen from the standard literature as well as improvisatory traditions of percussion music.

Credits: 1.00

**MU 130 - Chamber Music**

Study and performance of masterworks for small groups. Attendance at all rehearsals and public performances required. Outside practice required.

Credits: 1.00

**MU 131 - A & B Jazz Combos**

Small groups (a rhythm section and three to five solo instruments) in which students improve their improvisational skills while learning jazz repertory.

Credits: 1.00

**MU 133 - Applied Lessons**

Private instruction in an instrument or voice for music majors/minors in the freshman and sophomore years. Lab fee required. Juried examinations generally every semester of study. 133-136 for junior and senior music history and music theory concentrators only. Music education and performance concentrators only. Music education and performance concentrators must continue with 141 - 144

Credits: 1.00

**MU 134 - Applied Lessons**

Private instruction in an instrument or voice for music majors/minors in the freshman and sophomore years. Lab fee required. Juried examinations generally every semester of study. 133 - 136 for junior and senior music history and music theory concentrators only. Music education and performance concentrators must continue with 141 - 144.

Credits: 1.00 or 2.00

**MU 141 - Applied Lessons**

Private instruction in an instrument or voice for majors (performance and music

education concentrators) in the Junior and Senior years. Lab fee required. Juried examinations generally every semester of study.

Credits: 1.00

**MU 149 - Soph Recital/Performance Sem**

B.M. Candidates only.

Credits: 1.00

**MU 150 - Junior Recital**

B.M. Candidates only.

Credits: 1.00

**MU 153 - Harmony and Form III**

Advanced chromatic harmony, including altered subdominant and dominant functions; study of free forms, the art song, and the late 19th c. character piece. With accompanying lab. Prerequisites: MU 055 and MU 056; Instructor permission.

Credits: 3.00

**MU 154 - Harmony and Form Lab III**

Intensive study of solfege (music reading), chromatic harmony at the keyboard, dictation and open-score reading. Prerequisites: MU 056; Instructor permission.

Credits: 1.00

**MU 155 - Harm & Form IV:20th C Tech**

Writing and analysis: extended tonality, 12-tone techniques and neo-tonality. Examples drawn from seminal works of the 20th century. With accompanying lab. Prerequisites: MU 153 and MU 154; Instructor permission.

Credits: 3.00

**MU 156 - Harmony and Form Lab IV**

Intensive study of solfege (music reading), extended tonality and atonality at the keyboard, dictation, and open-score reading. Prerequisites: MU 154, or Instructor permission.

Credits: 1.00

**MU 157 - Composition**

Preliminary studies in free composition and the mechanics of score preparation; composition of an extended work for one to five instruments or voices.

Prerequisite: 153, or equivalent, with instructor's permission.

Credits: 3.00

**MU 159 - Theory/Prac Jazz Improv I**

Basic repertory, idiomatic usage, aural skills, theoretical constructs, and strategies for the jazz improviser. Prerequisite: intermediate instrumental skill, ability to read music, previous study of traditional music theory.

Credits: 3.00

**MU 176 - Music for Elem Teachers**

Development of musical skills, understandings, and attitudes for teaching music in the elementary classroom. Prerequisites: Sophomore standing in elementary education, and early childhood majors only; or acceptance into licensure program.

Credits: 3.00

**MU 181 - Conducting**

Baton technique, score reading, and laboratory practice. Preparation and performance of selected scores, including rehearsal procedures. Prerequisite: 153, 154.

Credits: 3.00

**MU 195 - Special Topics**

Courses on topics beyond the scope of existing departmental offerings. See schedule of courses for specific titles. Prerequisite: 53-56. Majors/minors or instructor's permission.

Credits: 3.00

**MU 196 - Special Topics**

Courses on topics beyond the scope of existing departmental offerings. See schedule of courses for specific titles. Prerequisite: 53-56. Majors/minors, or instructor's permission.

Credits: 3.00

**MU 201 - Composer Seminar**

Survey of the musical style of one or more composers. Context, history, legacy. Past offerings have included Schedule of Courses for specific topics. Bach, Beethoven, Stravinsky, and Ellington. See

Credits: 3.00

**MU 205 - Period Seminar**

Survey of music from a particular historical era. Context, composers, legacy. Past offerings have included music of the twentieth century, Baroque music, and twentieth century blues traditions. Prerequisite: 53-56, and either 111 or 112.

Credits: 3.00

**MU 211 - Senior Music History Project**

Directed readings and research. Research project. Prerequisite: 53-56, 153-56, and senior standing as a music history major.

Credits: 1.00

**MU 221 - Concert Band**

Concert Band is open to all students. Repertory is chosen from the standard literature as well as contemporary music.



Credits: 1.00

**MU 222 - University Concert Choir**

Mixed SATB choir. Performing choral masterworks from the baroque period to the present. Open to all students.

Credits: 1.00

**MU 223 - Orchestra**

Full orchestra comprising strings, woodwinds, brass, and percussion. All university students may audition. Several performances each year.

Credits: 1.00

**MU 224 - Jazz Band**

Exploration of classic big band repertory and works of contemporary composers and arrangers. Performance in one major concert every semester and occasional appearances off campus.

Credits: 1.00

**MU 225 - Vermont Wind Ensemble**

Vermont Wind Ensemble is a select group, open to all students. Repertory is chosen from the standard literature as well as contemporary music. Prerequisite: Concurrent enrollment in MU 121.

Credits: 1.00

**MU 226 - Accompanying**

Lessons in piano accompanying for soloists, taught by piano and instrumental/vocal faculty. Juried performance expected.

Credits: 1.00

**MU 227 - University Catamount Singers**

Mixed, select SATB chamber choir. Performing vocal music from the medieval period to the present. Open to all students.

Credits: 1.00

**MU 229 - Percussion Ensemble**

Percussion ensemble is open to all students. Repertory is chosen from the standard literature as well as improvisatory traditions of percussion music.

Credits: 1.00

**MU 230 - Chamber Music**

Study and performance of masterworks for small groups. Attendance at all rehearsals and public performances required. Outside practice required.

Credits: 1.00

**MU 231 - A & B Jazz Combos**

Small groups (a rhythm section and three to five solo instruments) in which

students improve their improvisational skills while learning jazz repertory.

Credits: 1.00

**MU 250 - Senior Recital**

Credits: 1.00

**MU 253 - Orchestration**

Characteristics of instruments; study of instrumental scores ; arranging and transcribing for ensembles. Prerequisite: 153, or instructor's permission.

Credits: 3.00

**MU 256 - Advanced Composition**

Creative work in free composition leading, when possible, to public performance of the completed work on a departmental concert. Prerequisites: MU 157 or equivalent with Instructor permission.

Credits: 3.00

**MU 257 - Jazz Composition and Arranging**

Introduction to concepts and techniques used in jazz arranging and composition through study of historic works. Final project is an arrangement for big band.

Prerequisite: 53-56.

Credits: 3.00

**MU 259 - Thry & Prac of Jazz Improv II**

Chord substitution, re-harmonization, scale alteration, "free" improvisation, and other techniques in written assignments and classroom performance of modern jazz repertory. Prerequisites: MU 159, or Instructor permission.

Credits: 3.00

**MU 260 - Senior Music Theory Project**

Research paper; Topic chosen under direction of assigned staff member.

Prerequisite: senior standing as theory major.

Credits: 1.00

**MU 277 - Elem Music Educ Methods**

Methods and materials for teaching music in elementary schools. Prerequisites: Acceptance into licensure program; Junior standing in Music Education.

Credits: 3.00

**MU 278 - Sec Music Educ Methods**

Methods and materials in the teaching of vocal and instrumental music in secondary schools. Prerequisites: Acceptance into licensure program; Junior standing in Music Education.

Credits: 3.00

**MU 281 - Advanced Conducting**

Focus on advanced conducting techniques and score preparation. Exploration of instrumental and vocal conducting techniques. Prerequisite: MU 181.

Credits: 3.00

**MU 290 - Teaching Internship**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Senior standing.

Credits: 12.00

**MU 295 - Special Topics**

Credits: 3.00

**MU 296 - Special Topics**

Credits: 3.00

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## Courses in Music Education (EDMU)



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### Courses in Natural Resources (NR)

**NR 001 - Natural Hist & Field Ecology**

Introduction to the dynamics of the natural world. Basic concepts of biological, chemical, physical, and ecological sciences and the application and interpretation of quantitative measurements are presented within a natural history context.

Credits: 4.00

**NR 002 - Nature & Culture**

Introduction to natural resources and the environment from a social/cultural perspective. Emphasis on environmental history, values, and ethics with application to natural resource and environmental policy.

Credits: 3.00

**NR 006 - Race & Culture in NR**

Introduces the first-year student to issues of race and culture from a variety of disciplinary perspectives.

Credits: 2.00

**NR 025 - Measurements & Mapping**

Introduction to surveying, mapping, aerial photo measurements, and interpretation for natural resource planning and management. Prerequisite: A course in high school or college trigonometry; permission required of nonmajors.

Credits: 4.00

**NR 099 - Aiken Scholars Seminar**

Seminar discussions on current environment issues. Guest speakers and field trips. Prerequisite: Open only to First-Year Aiken Scholars.

Credits: 1.00

**NR 102 - Water as a Natural Resource**

Characteristics of water-sheds, lakes, rivers, and wetlands; discussion of the management of these ecosystems; effects of society on the water resource.  
Prerequisites: Biology 1; Zoology 9 or Botany 4 or equivalent; Chemistry 31, 23, 26, or 42 or equivalent.  
Credits: 3.00

**NR 103 - Ecology, Ecosystems & Environ**

Major ecological concepts and their application. Analysis of form, structure, and function of organisms, populations, communities, ecosystems, and landscapes.  
Prerequisites: 1; concurrent enrollment in 104 and 105 required.  
Credits: 3.00

**NR 104 - Social Proc & the Environment**

Social science theories and their application to environmental issues. Analysis of issues using theories of government, economics, and social movements.  
Emphasis on integrating frameworks to analyze environmental issues.  
Prerequisite: 2 and concurrent enrollment in 103 and 105 required.  
Credits: 3.00

**NR 105 - Environmental Problem Analysis**

Examination of interdisciplinary dimensions of natural resource and environmental problems. Emphasis on social and ecological aspects of environmental issues and interdisciplinary teamwork. Prerequisite: NR 001, NR 002; concurrent enrollment in NR 103 and NR 104.  
Credits: 1.00

**NR 107 - The Environment&Human Health**

Interdisciplinary understanding of the effects of anthropogenic factors including pollution, reduced biodiversity, climate change, overpopulation, and resource depletion on the health of natural systems and human populations. Pre/co-requisites: a college level science course and sophomore standing. (Crosslisted with NH 107).  
Credits: 3.00

**NR 140 - Natrl Resources Biostatistics**

Introduction to applied statistical methods for typical natural resources biological problems. Descriptive statistics, hypothesis testing, regression, and sampling design. Emphasis on problem formulation and solution. Prerequisites: Sophomore standing, two years of high school algebra.  
Credits: 4.00

**NR 143 - Intro to Geog Info Systems**

Understanding and application of computer-based, geographically-referenced information systems. Prerequisites: Junior standing; CS 003 or CS 011.  
Credits: 3.00

**NR 146 - Remote Sensing of Natural Res**

Cross-listed with: FOR 146, GEOG 185.

Credits: 3.00

**NR 153 - Intro Environmental Policy**

Introduction to policy aspects of environment and natural resources including policy processes, public governance, and citizen participation with applications to environmental issues. Pre/co-requisite: NR 104 or POLS 021.

Credits: 3.00

**NR 170 - Intro Dynamic Simulation Mdlg**

Elementary principles of dynamic simulation modeling and use of the STELLA II dynamic simulation software. Example simulations of natural environmental systems. Prerequisite: Sophomore standing.

Credits: 1.00

**NR 185 - Special Topics**

Special topics in natural resources beyond the scope of existing formal courses. Variable credit.

Credits: 6.00

**NR 189 - Student-Designed Course Work**

Student-taught course work beyond the scope of formal courses in natural resources. Developed according to RSENR guidelines with sponsorship by interested faculty. Variable credit.

Credits: 1.00 to 3.00

**NR 199 - Honors Seminar**

A discussion and readings seminar that features guest speakers, and is part of the SNR Spring Seminar Series. Focus of the seminars change annually. Can be repeated. Prerequisite: Sophomore standing; open only to SNR Honors Students.

Credits: 1.00

**NR 205 - Ecosys Mgt:Integ Sci,Soc & Pol**

Integration of natural and social science into ecosystem management and policy. Consideration of ecosystem integrity, ecosystem degradation, human needs and values, and the application of management principles within a holistic context. Prerequisites: 1, 2, 103, 104. (Not offered for graduate credit.)

Credits: 3.00

**NR 206 - Env Prob Sol & Impact Assessmt**

Group dynamics, impact assessment, risk assessment, and decision making. Emphasis on the process of solving complex environmental problems, interdisciplinary team work, and the National Environmental Policy Act. Prerequisites: 1, 2, 103, 104, 205, and statistics. (Not offered for graduate credit.)

Credits: 4.00

**NR 220 - Landscape Ecology**

Study of pattern, process, and dynamics in the landscape. Considers the role of landscape pattern in determining habitat quality and ecosystem function.

Prerequisites: One biology, one ecology course; senior standing. Alternate years, 2002-03.

Credits: 3.00

**NR 224 - Conservation Biology**

Conservation of biological diversity at genetic, species, ecosystem, and landscape levels. Emphasis on genetic diversity, population viability, endangered species, critical habitats, international implications. Prerequisites: Biology 1, 2; a 100-level ecology course. (Not offered for graduate credit.)

Credits: 3.00

**NR 228 - Ecosystem Ecology**

(Cross-listed with Forestry 228.) UG only.

Credits: 3.00

**NR 235 - Legal Aspects Envir Planning**

Comparison of environmental planning law at local, state, and national levels. Case studies in environmental and natural resource planning and land use controls. Pre/co-requisite: Senior Standing.

Credits: 3.00

**NR 245 - Advanced Spatial Methods**

Advanced methods in Geographic Information Systems (GIS) and spatial analysis, including the integration of statistics, classical hypothesis testing, and GIS. Pre/co-requisites: senior standing, 1 introductory GIS course, 1 statistics course

Credits: 3.00

**NR 250 - Limnology**

Ecology of lakes and reservoirs, including their origin, physics, chemistry and biology, and the effects of anthropogenic perturbations. Field and laboratory experience. Prerequisites: One year Biology; one year Chemistry; ecology course.

Credits: 4.00

**NR 254 - Adv Natural Resource Policy**

Advanced seminar in natural resource policy, emphasizing current issues in forest policy. Prerequisite: Graduate or advanced undergraduate standing; Instructor permission.

Credits: 3.00

**NR 255 - Field Mthds in Water Resources**

Techniques used in field assessment of water quality in rivers and lakes. Case studies on the LaPlatte River and Lake Champlain. Sampling strategies, field



measurements, and data evaluation. Extensive field work. Prerequisite: NR 102 or equivalent basic course in water.

Credits: 3.00

**NR 256 - Ecology of a Large Lake**

A field exploration of the littoral zone and deep lake environments and human impacts on large lakes using Lake Champlain as the class laboratory.

Prerequisite: 100-level ecology course.

Credits: 4.00

**NR 260 - Wetlands Ecology & Mgmt**

Structure, dynamics and values of natural and artificial wetlands; wetlands management and issues. Prerequisite: BIOL 001 and BIOL 002; an upper-level ecology course.

Credits: 3.00

**NR 262 - Int'l Problems in NR Mgmt**

Discussion of problems associated with the management of natural resources which have international implications. Topics may include deforestation, desertification, fisheries, wildlife, refuges, fuelwood, pollution. Prerequisite: Senior standing; permission.

Credits: 3.00

**NR 270 - Toxic&Hrzds Subst in Srf Water**

The fate of toxic and hazardous pollutants, including trace elements and organics, in surface waters; effects on human health and aquatic biota. Prerequisite: BIOL 001, CHEM 023, CHEM 042; CHEM 102 or equivalent; Senior standing.

Credits: 3.00

**NR 275 - NR Planning: Theory & Methods**

Investigates theoretical development of natural resource planning. Studies planning methods appropriate to protection and use of scenic, recreational, forest, agriculture, and historic resources and ecologically sensitive areas. Prerequisite: Senior standing.

Credits: 3.00

**NR 278 - Principles of Aquatic Systems**

Study of physical, chemical and biological principles as related to natural aquatic systems. Modeling dynamic behavior of aquatic systems using system simulation techniques. Prerequisite: MATH 019, PHYS 011, CHEM 023, CHEM 026 or equivalent; NR 170 or equivalent or as a co-requisite; Senior standing. Lecture and three hours laboratory per week.

Credits: 3.00

**NR 279 - Watershed Management Hydrology**

Fundamental elements of hydrology and contaminant transport in watersheds.

Application of dynamic simulation techniques. Discussion of new technologies for watershed management. Prerequisite: NR 170 or equivalent or as a co-requisite; NR 020, PHYS 011, CHEM 023, CHEM 026 or equivalent; Senior standing.

Credits: 3.00

**NR 280 - Stream Ecology**

Ecology of streams including hydrodynamics, morphology, sediment transport, chemistry, biology and human impacts. Field and laboratory experience. ecology course. Prerequisites: One year Biology; one year Chemistry;

Credits: 4.00

**NR 285 - Advanced Special Topics**

Advanced special topics in natural resource planning beyond the scope of existing formal courses. Prerequisite: Graduate/Senior standing; Instructor permission.

Credits: 6.00

**NR 288 - Ecol Design & Living Technol**

The course explores the potential for ecological design to shape a sustainable future. It analyses living technologies for food production, waste management and environmental restoration. Pre/co-requisites: Jr/Sr standing; background in ecology/systems theory.

Credits: 3.00

**NR 298 - Honors 'Project' Planning**

Discussions leading to the development of an individual or group Senior Honors Project Proposal. Prerequisites: Junior standing; open only to SNR Honors Students. UG only.

Credits: 2.00

**NR 299 - Honors**

Honors project dealing with aquatic resources, terrestrial ecology, or integrated natural resources. Prerequisite: By application only; see program chair. UG only.

Credits: 3.00

**NR 343 - Fndmtls of Geog Info Systems**

Concepts and methods in Geographic Information Systems (GIS) presented at an accelerated pace for Graduate students using ArcGIS software. Pre/co-requisites: Graduate standing.

Credits: 3.00

**NR 346 - Digital Image Processing**

Principles and applications of digital image processing of remotely sensed imagery. Hands-on analyses of satellite imagery will address environmental issues using ERDAS Imagine software.

Credits: 2.00

**NR 354 - Seminar:Envrmtl Policy & Mgmt**

Seminar examining contemporary environmental policy at local, state, national, and international levels; policy formulation, implementation and design relative to current environmental problems. Prerequisites: Graduate standing.

Credits: 3.00

**NR 360 - Environmental Sociology**

An in-depth exploration of how sociologists understand the relationship between a) the physical environment's effects on society, and b) society's effects on the natural environment. Prerequisite: Graduate standing; or Instructor permission. Fall. Alternate years.

Credits: 3.00

**NR 361 - Politic:Landscape,Place,Nature**

Seminar exploring the social and political construction of nature, emphasizing how natural resources and environment are defined through social relationships in particular landscapes and places.

Credits: 2.00

**NR 370 - Sp Tpcs in Aquatic Toxicology**

Discussions of the current literature in aquatic toxicology. Concurrent enrollment in NR 270. Prerequisite: Graduate student standing.

Credits: 1.00

**NR 375 - NR Planning: Laboratory**

Experiential laboratory applying natural resource planning theory and methods to local or regional issues. Students conduct a planning exercise for a town or region. Co-requisite: Concurrent enrollment in NR 275.

Credits: 1.00

**NR 377 - Land Use Policy & Economics**

Economic and social forces that drive urban and suburban land use patterns, such as urban sprawl, and the policy mechanisms designed to intervene in those processes. Pre/co-requisites: Econ 172 or equivalent, grad standing.

Credits: 3.00

**NR 378 - Integrating Analyses NR Issues**

Resource Issues. Seminar contrasting epistemologies and ontologies of natural resource disciplines. Applications from fields such as ecology, policy, sociology, engineering, and ethics. Prerequisite: Graduate standing.

Credits: 3.00

**NR 380 - Seminar in Natural Resources**

Presentation and discussion of advanced problems, research, and current topics in natural resources by faculty, graduate students, and outside guest speakers.

Credits: 2.00

**NR 382 - Seminar in Research Planning**

Discussions of the planning and activities associated with Graduate student projects and research. Prerequisite: Instructor permission. Cross-listed with: FOR 382.

Credits: 1.00

**NR 384 - Independent Study in NR**

Readings, with conferences, to provide graduate students with backgrounds and specialized knowledge relating to an area in which an appropriate course is not offered.

Credits: 3.00

**NR 385 - Special Topics in NR**

Graduate topics and material that may eventually develop into a regular course offering; in addition, it may include topics and material presented only once.

Credits: 3.00

**NR 391 - Master's Thesis Research**

Credits: 1.00 to 18.00

**NR 392 - Master's Project Research**

Credits: 1.00 to 12.00

**NR 491 - Doctoral Dissertation Research**

Credits: 1.00 to 18.00



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## Courses in Nuclear Medicine Technology (NMT)

### **NMT 151 - Prin of Nuclear Medicine**

Lecture and laboratory experiences to introduce the theories and practice of nuclear medicine technology. Pre/co-requisites: MLRS 140.

Credits: 3.00

### **NMT 152 - Radiopharmaceuticals**

The radiopharmacological aspects of nuclear medicine technology, including radiation physics, safety, tracer principles, and dosimetry. Pre/co-requisites: NMT 151.

Credits: 4.00

### **NMT 153 - Nuclear Med Clin Procedures I**

Procedures I Principles of diagnostic imaging procedures emphasizing the nuclear medicine technologist's role in patient care and preparation, radiopharmaceutical selection, image acquisition, and data processing and analysis. Prerequisite: NMT 152.

Credits: 3.00

### **NMT 154 - Nuclear Med Clin Procedures II**

Procedures II Principles and technical considerations of in vivo and in vitro nuclear medicine diagnostic and therapeutic procedures. Prerequisite: NMT 153.

Credits: 3.00

### **NMT 155 - Instrumentation I**

Nuclear medicine instrumentation, with emphasis on planar imaging devices, computer, and quality control; introduction to SPECT camera systems.

Prerequisite: NMT 152.

Credits: 3.00

**NMT 156 - Instrumentation II**

Advanced nuclear medicine instrumentation with emphasis on state-of-the-art imaging devices. Prerequisite: NMT 155.

Credits: 3.00

**NMT 163 - Nuclear Med Clin Practicum I**

Students observe and participate in Fletcher Allen Health Care's Nuclear Medicine Department. NMT majors only.

Credits: 1.00

**NMT 164 - Nuclear Med Clin Practicum II**

Students participate in routine imaging procedures emphasizing patient care, positioning, and instrumentation. NMT majors only. Prerequisite: NMT 163.

Credits: 3.00

**NMT 175 - Medical Imaging**

Introduction to the radiographic anatomy and the various imaging modalities presently used to include diagnostic imaging, computed tomography (CT), magnetic resonance imaging (MRI), and nuclear medicine. Pre/co-requisites: ANPS 19, concurrent with ANPS 20, MLRS 140. Cross-listed with RADT 175.

Credits: 3.00

**NMT 263 - Adv Nuclear Med Clin Pract III**

Experience in advanced clinical and pharmacological procedures. NMT majors only. Prerequisite: NMT 164.

Credits: 3.00

**NMT 264 - Clinical Internship**

Full-time clinical experience at an affiliated institution. NMT majors only. Prerequisite: NMT 263.

Credits: 17.00

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## Courses in Nursing (NURS)

### **NURS 015 - Personal Power in Health**

Explores consumer power in health care. Addresses how an individual can influence personal health as well as health of community.

Credits: 3.00

### **NURS 020 - Aging:Change & Adaptation**

Individual and social meanings of aging and old age; physical, physiological, psychological, and sociological changes accompanying aging; individual family, community, and societal adaptations to aging. Cross-listed with HDFS 020.

Credits: 3.00

### **NURS 030 - Trad Chin Med & Asian Bodywork**

This class introduces the student to Traditional Chinese Medicine. Emphasis is placed on developing assessment skills using TCM theories. The lab will include learning a basic, total bodywork session. Prerequisites: ANPS 019 & ANPS 020 or permission of Instructor.

Credits: 2.00

### **NURS 100 - Biology of Aging**

Human aging examined emphasizing biological and nonpathological physiological changes and their effects on the functioning of elders. Prerequisites: BIOL 004 or ANPS 009, ANPS 010 or ANPS 019 - ANPS 020 or Instructor permission. Cross-listed with: HDFS 152.

Credits: 3.00

### **NURS 105 - Cultural Health Care**

Examine the principles and theories of culture in health and illness care. Students will also be involved in fifteen hours of service-learning in various community sites.

Credits: 3.00

**NURS 115 - Women's Health & Advocacy**

Aims to demystify women's health care issues through understanding options/choices concerning sexuality, contraception, reproductive health, sexually transmitted diseases, relationships, addictive disorders, anxiety/depression and more. Fall semester.

Credits: 3.00

**NURS 120 - Pathophysiology**

This course is designed to provide the student with a comprehensive foundation in pathophysiology. The phenomena that result in dysfunction in human physiologic response will be examined. Prerequisites: ANPS 19,20. Recommended: MMG 65 or BMT 54.

Credits: 3.00

**NURS 140 - Issues in Women's Health**

A holistic exploration of the health care needs of women. This course will consider the stereotypical, theoretical, and clinical approaches of care used in treating women. Prerequisite: PSYC 001, HDF5 005; Sociology course below SOC 100.

Credits: 3.00

**NURS 141 - Healing Touch Level I**

Healing Touch is an energy based therapeutic approach to healing which uses touch to influence the energy system thus affecting physical, emotional and spiritual health and healing.

Credits: 1.00

**NURS 142 - Healing Touch Level 2**

The second level of Healing Touch includes an intake interview, back techniques, and a full healing sequence. Emphasis in the experimental learning is on developing sequences for specific client needs. Pre/co-requisite: NURS 141.

Credits: 1.00

**NURS 195 - Special Topics**

Credits: 4.00

**NURS 196 - Special Topics**

Credits: 6.00



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## Courses in Nursing & Health Sciences (NH)

### NH 107 - The Environment&Human Health

Interdisciplinary understanding of the effects of anthropogenic factors including pollution, reduced biodiversity, climate change, overpopulation, and resource depletion on the health of natural systems and human populations. Pre/co-requisite: a college level science course; Sophomore standing. Cross-listed with: NR 107.

Credits: 3.00

### NH 108 - Exploration in Public Health

From various disciplines, theoretical perspectives, and narrative experiences, the class will build and apply to contemporary issues and populations an ideal public health service model.

Credits: 3.00

### NH 195 - Special Topics

Intermediate courses or seminars on topics beyond the scope of the normal departmental or college offerings. See Schedule of Courses for specific titles.

Credits: 3.00



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## Courses in Nutrition and Food Sciences (NFS)

### **NFS 043 - Fundamentals of Nutrition**

Comprehensive study of specific nutrients in terms of their availability, function, and utilization in mammalian species. Prerequisites: High school chemistry and biology. Fall /Spring.

Credits: 3.00

### **NFS 044 - Survey of the Field**

Nutrition and Food Sciences Introduction to the professional field and career opportunities in dietetics, nutrition and food science. Required of all First-Year and transfer students. Fall.

Credits: 1.00

### **NFS 053 - Basic Concepts of Foods**

Study of the scientific aspects of food with emphasis on reasons for procedures used and phenomena occurring in food preparation. Spring.

Credits: 3.00

### **NFS 054 - Basic Concepts of Foods Lab**

Developing comprehension of scientific principles of food preparation through modification of standard recipes, manipulation of ingredients and techniques, and evaluation using sensory and objective methods. Prerequisite: NFS 053 or concurrent registration in NFS 053 or permission. Spring; Department majors only.

Credits: 1.00

### **NFS 063 - Obesity,Weight Control&Fitness**

Introduction to the causes, consequences, and reputed cures of obesity which includes: evaluation of body composition and modification of eating and exercise behaviors in weight control. Fall / Spring.

Credits: 3.00

**NFS 143 - Nutrition in the Life Cycle**

Nutritional needs of people throughout the life cycle. Physiological and environmental factors which affect nutritional status. Designed for Nutrition majors. Prerequisite: NFS 043. Fall.  
Credits: 3.00

**NFS 153 - Principles of Food Technology**

Food processing technologies and underlining principles of changes in microbiological quality and safety, chemical composition and nutritional value, and interaction of functional additives and ingredients. Prerequisite: NFS 043, NFS 053; organic chemistry. Spring.  
Credits: 3.00

**NFS 154 - Principles Food Technology Lab**

Experiential learning of principles of major modern food processing and preservation technologies, essential skills of food quality and safety assurance, and new product development. Prerequisite: NFS 054, NFS 153, or concurrent enrollment in NFS 153, organic chemistry; Department majors only.  
Credits: 1.00

**NFS 163 - Sports Nutrition**

Timing and composition of meals for training and pre- and post-competition. Prerequisite: Instructor permission. Fall/Spring.  
Credits: 3.00

**NFS 165 - Mgmt of Eating Disorders**

Examination of the causes, diagnosis, and treatment of body image disorder, anorexia nervosa, bulimia nervosa, binge eating, and obesity. Information is provided through readings, lecture, discussion, and speakers. Spring.  
Credits: 3.00

**NFS 195 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Credits negotiable. Enrollment may be more than once, maximum of 12 hours in NFS 195 and NFS 295 combined. Prerequisite: Department permission  
Credits: 3.00

**NFS 196 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and business or community representative. Credits negotiable, maximum of 15 hours in NFS 196 and NFS 296 combined. Prerequisite: Department permission.  
Credits: 3.00

**NFS 197 - Undergraduate Research**

Individual laboratory or community research in food or nutritional sciences under the guidance of a faculty member. Arrangement with faculty member and

permission of Department Chair.

Credits: 3.00

**NFS 198 - Undergraduate Research**

Individual laboratory or community research in food or nutritional sciences under the guidance of a faculty member. Arrangement with faculty member and Department Chair permission.

Credits: 1.00

**NFS 201 - Fermented Dairy Foods**

Fundamental processes involved in the manufacture of domestic and imported cheese varieties and other cultured dairy foods. Acquired knowledge of manufacturing procedures applied at pilot plant level. Prerequisite: A course in organic chemistry; AGBI 201, or permission. Alternate years.

Credits: 4.00

**NFS 203 - Food Microbiology**

Desirable and undesirable activities of bacteria in foods. Mechanisms of food-borne infection and intoxication. Laboratory methods to enumerate and identify microorganisms associated with food. Prerequisite: A course in Biochemistry. Fall.

Credits: 4.00

**NFS 205 - Functional Foods:Prncpl & Tech**

Examines the constituents that make food products functional and provides laboratory techniques needed to create a functional food. Pre/co-requisites: NFS 153, NFS 154, or Instructor permission.

Credits: 3.00

**NFS 208 - Sensory Evaluation of Foods**

Nature of sensory responses to aroma, taste, and texture of foods; relation of sensory data to instrumental measurements; statistical analysis and interpretation of sensory data. Prerequisite: a course in Statistics. Alternate years.

Credits: 4.00

**NFS 223 - Nutrition Educ & Counseling**

Use of appropriate education theory, techniques, and media in nutrition education and counseling theories and negotiation, interviewing and counseling skills in individual and group counseling. Pre/co-requisites: NFS 043, NFS 053, NFS 054, NFS 143.

Credits: 3.00

**NFS 243 - Advanced Nutrition**

Study of nutrients and their specific functions in metabolic process integrating cellular physiology, biochemistry, and nutrition. Prerequisites: 43, AGBI 201 or equivalent, ANPS 19 or equivalent; Junior standing. Spring.

Credits: 3.00

**NFS 244 - Nutr in Hlth & Disease Prevntn**

Examination of dietary planning, nutrition assessment, genetics, drug-nutrient interactions, CAM therapies and nutrition related to health and prevention of disease. Pre/co-requisites: CHEM 042, ANPS 020, NFS 053, NFS 054, NFS 143.  
Credits: 3.00

**NFS 250 - Foodservice Systems**

Emphasis on the foodservice system model for understanding quality control; food procurement, production, and marketing; management and evaluation of foodservice facilities, human and financial resources. Prerequisites: BSAD 065 and BSAD 120.  
Credits: 4.00

**NFS 253 - Food Safety & Regulation**

Comprehensive study of the relationships between food processing and preservation, food toxicology, and the scope, applicability, and limitations of U.S. food laws. Prerequisite: AGBI 201 or equivalent. Spring.  
Credits: 3.00

**NFS 260 - Diet and Disease**

Examination of the physiologic, biochemical, and psychosocial basis of several disease states and the application of medical nutrition therapy in treatment. Prerequisite: NFS 053, NFS 143, NFS 243, NFS 244.  
Credits: 3.00

**NFS 262 - Community Nutrition**

Study of U.S. public health nutrition policies, programs and practices. Emphasis on community nutrition program planning including needs assessment, intervention development and evaluation. Prerequisite:NFS 260; Senior standing. Spring.  
Credits: 3.00

**NFS 263 - Nutritional Biochemistry**

Comprehensive study of metabolism of carbohydrates, lipids, and protein emphasizing diet induced, hormone mediated alterations in metabolism (e.g. starvation and obesity). Prerequisite: NFS 243 or Instructor permission. Spring.  
Credits: 3.00

**NFS 274 - Community Practicum**

Professional field experience in a community nutrition organization. Credit negotiable but not to exceed three per semester. Enrollment may be more than once, maximum of 6 credits. Prerequisite: Instructor's permission. (Not offered for graduate credit.)  
Credits: 1.00 to 6.00

**NFS 295 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Credits negotiable. Enrollment may be more than once, maximum of 12 hours in 195 and 295 combined. Prerequisite: Departmental permission.

Credits: 5.00

**NFS 296 - Field Experience**

Professionally-oriented field experience under joint supervision of faculty and business or community representative. Credit negotiable. Maximum of 15 hours in 196 and 296 combined. Prerequisite: Departmental permission.

Credits: 4.00

**NFS 350 - Nutrition&Food Science Seminar**

Credits: 1.00

**NFS 360 - Rsch Meth Nutr & Food Sciences**

Advanced research methods, including grant preparation, IRB requirements, data analysis and presentation, and selected topics in advanced nutritional and food sciences. Pre/Co-requisites: Permission of the Instructor.

Credits: 3.00

**NFS 391 - Master's Thesis Research**

Credits: 1.00 to 18.00

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## Courses in Obstetrics & Gynecology (OBGY)

### OBGY 295 - Special Topics

Lectures, readings and discussion for advanced students within areas of expertise of faculty and staff. Prerequisite: Permission of the Instructor.

Credits: 3.00

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## Courses in Orthopedic Surgery (ORTH)

### ORTH 291 - Rsch in Orth & Rehab

Work on research problem under the direction of a faculty member. Review of literature, preparation of manuscript. Prerequisite: Instructor Permission. In collaboration with clinical faculty of the Department.

Credits: 3.00

### ORTH 292 - Special Topics:Orthopaedics

Work on research problem under the direction of a faculty member. Review of literature, preparation of manuscript. Prerequisite: Instructor Permission. In collaboration with clinical faculty of the Department.

Credits: 3.00

### ORTH 382 - Rdgs & Rsch:Musc Biomechanics

Intended for Graduate Students doing thesis or dissertation work in biomechanics. Class will meet to discuss current journal articles and literature reviews prepared by students. Prerequisite: Instructor Permission.

Credits: 1.00



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## Courses in Overseas Study Program (OSSP)

### OSSP 000 - Overseas Study Program

Credits: 12.00

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## Courses in Pathology (PATH)

### **PATH 101 - Intro to Human Disease**

Elementary course in human pathology designed for Allied Health students. First portion deals with general mechanisms of disease, followed by disorders of specific organs. Prerequisite: College biology, anatomy, and physiology.

Credits: 3.00

### **PATH 295 - Special Topics**

Credits: 3.00

### **PATH 301 - General Pathology**

An introductory study of the basic mechanisms and principles of cell injury, inflammation and repair, neoplasia, aging, immunological, nutritional, genetic and environmental diseases, and coagulation disorders as they affect cells, tissues, and the human patient. Lecture and Lab (gross and microscopic). For Medical students. Prerequisite: Instructor Permission. Histology recommended.

Credits: 3.00

### **PATH 302 - Systematic Pathology**

Introduction to diseases, and their effects on virtually all organ systems. Emphasis is on correlation of gross and microscopic pathology with clinical laboratory medicine, and the patient's signs and symptoms. Prerequisites: PATH 301, Instructor permission.

Credits: 8.00

### **PATH 305 - Molecular Mech Environ Disease**

Introductory course on molecular and cellular pathways of disease induction and development. Emphasis on environmental diseases. For graduate students and postdoctoral fellows and undergraduates with permission of course director. Alternate years.

Credits: 3.00

**PATH 306 - Pathobiology of Disease**

Computer-assisted basic pathology series with emphasis on skin, lung, brain, and digestive tract. Alternate years with PATH 305.

Credits: 1.00

**PATH 375 - ST:Molecular Pathobiology**

Five independent, rotating one-semester modules concerning: Atherosclerosis, DNA Replication, Human Genetics, Cell Imaging Techniques, Cell Signalling in Differentiation and Apoptosis, and Cancer Genetics. Each course based on critical review of the primary literature. Alternate years. Prerequisites: Biochemistry 301, 302 or instructor's permission. Open to undergraduates with instructor's permission.

Credits: 3.00

**PATH 391 - Master's Thesis Research**

Credits: 1.00 to 18.00

**PATH 395 - Spec Top:Immunopathology**

In-depth analysis of the role of the immune system in disease processes.

Discussions center on current and controversial areas of immunopathology.

Prerequisites: Immunology (Microbiology 223) desirable. Alternate year course with 305.

Credits: 5.00



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## Courses in Pharmacology (PHRM)

### PHRM 272 - Toxicology

The biology of environmental intoxicants and of drug abuse. Ecologic and physiologic consequences of the dissemination of agricultural, industrial, and medicinal chemicals. Prerequisites: Organic chemistry, background in biology.

Credits: 3.00

### PHRM 290 - Topics Molecular&Cell Pharm

Focuses on basic principles, drug interactions with receptors, membranes, synapses, neurotransmitters, macromoles, cytoskeleton, ion channels and pumps, and mechanisms of drug resistance. Prerequisite: Introductory course in organic chemistry, background in physiology or health sciences.

Credits: 3.00

### PHRM 301 - Medical Pharmacology

The chemical and biological properties of drugs. Prerequisite: Permission.

Credits: 6.00

### PHRM 302 - Pharmacological Techniques

Experiments conducted under supervision in the areas of drug metabolism, modes of drug action, physicochemical properties of drugs, bioassay, and toxicology.

Open to undergraduates with instructor's permission.

Credits: 3.00

### PHRM 303 - Pharmacological Techniques

Experiments conducted under supervision in the areas of drug metabolism, modes of drug action, physicochemical properties of drugs, bioassay, and toxicology.

Open to undergraduates with instructor's permission.

Credits: 2.00

**PHRM 328 - Intro to Medicinal Chemistry**

Important classes of drugs are surveyed. Emphasis on relationships between physicochemical properties and pharmacologic activity; synthetic aspects considered. Prerequisites: Chemistry 131-132. Open to undergraduates with instructor's permission.

Credits: 3.00

**PHRM 372 - Special Topics**

Topics of current interest and importance in pharmacology are considered in depth through presentations by staff, students, and visiting scientists. Prerequisite: Instructor Permission. Credit variable.

Credits: 3.00

**PHRM 373 - Readings in Pharmacology**

Intensive directed reading in one area of pharmacology. Pharmacology students must choose a topic outside thesis research area. Term paper and seminar on selected topic required. Prerequisite: Instructor Permission.

Credits: 2.00

**PHRM 381 - Seminar**

Current developments in pharmacology are presented for discussion by students. Prerequisite: Instructor Permission.

Credits: 1.00

**PHRM 391 - Master's Thesis Research**

Credits: 1.00 to 12.00

**PHRM 491 - Doctoral Dissertation Research**

Credits: 1.00 to 12.00

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## Courses in Philosophy (PHIL)

### **PHIL 001 - Intro Phil: Selected Problems**

Introduction to philosophy through such fundamental problems as the existence of God, the basis of morality, and the possibility of knowledge. Contemporary and historical readings. Credit not given for more than one of 1, 3, and 4.

Credits: 3.00

### **PHIL 003 - Intro Philosophy: East & West**

Introduction to the historical dialectic of philosophy by comparisons and contrasts between Chinese and Western traditions of philosophy. Credit not given for more than one of 1, 3, and 4. Offered every semester.

Credits: 3.00

### **PHIL 004 - Intro to Philosophy: Ethics**

Introduction to philosophy through an analysis of the principal problems and theories of ethics. Credit not given for more than one of 1, 3, and 4. Offered every semester.

Credits: 3.00

### **PHIL 013 - Introduction to Logic**

Study of the basic principles of deductive inference.

Credits: 3.00

### **PHIL 095 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

### **PHIL 096 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**PHIL 101 - History of Ancient Philosophy**

Study of the works of the Pre-Socratics, Plato, Aristotle, and their successors.

Prerequisite: 1, 3, 4, 95, 96. Fall.

Credits: 3.00

**PHIL 102 - History of Modern Philosophy**

Study of works of the major philosophers of the 17th and 18th centuries:

Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, and others.

Prerequisite: 1, 3, 4, 95, 96. Spring.

Credits: 3.00

**PHIL 108 - Plato**

(See Classics 161.) Prerequisites: 1 course in Philosophy or in Classics (Greek Culture or Greek).

Credits: 3.00

**PHIL 111 - Philosophy of Mind**

Inquiry into such topics as consciousness, the relation between the mental (beliefs, sensations, etc.) and the physical (chemicals, neurons, etc.) and how minds represent things. Pre/co-requisites: One of 1, 3, 4, 95, or 96 or one course in psychology.

Credits: 3.00

**PHIL 112 - Philosophy of Science**

Introduction to major philosophical problems raised by science. Typical topics: the nature of scientific inference, the structure of theories, causation, explanation, and scientific change. Prerequisite: One course in philosophy or one course in history of science or six hours in any natural science. Fall.

Credits: 3.00

**PHIL 118 - Metaphysics**

A study of such topics as vagueness, the nature of time, persistence of objects and people through change and whether numbers or properties exist. Pre/co-requisites: One of 1, 3, 4, 95, 96 or permission.

Credits: 3.00

**PHIL 120 - Phil of Cognitive Science**

An examination of philosophical issues concerning the nature of the human mind raised by the cognitive sciences (psychology, computer science, linguistics, and neuroscience. Pre/co-requisites: One of Phil 1, 3, 4, 95 or 96, or permission

Credits: 3.00

**PHIL 121 - Chinese Philosophy I**

Study of the Classical Schools of Chinese thought, including Confucianism, Taoism, Mohism, and Legalism. Prerequisite: One course in philosophy, religion, or Asian studies. Offered two out of every three semesters.

Credits: 3.00

**PHIL 130 - Phil Foundations of Education**

Critical examination of the aims of education and the most appropriate means of achieving those aims. Readings from historical and contemporary sources.

Prerequisite: 1, 3, 4, 95, 96. Alternate years.

Credits: 3.00

**PHIL 135 - Philosophy of Religion**

Typical topics: the nature of religion, the concept of God, the grounds for belief in God, mortality, truth, and revelation. Historical and contemporary sources.

Prerequisite: 1, 3, 4, 95, 96. Offered once a year.

Credits: 3.00

**PHIL 140 - Social & Political Philosophy**

Analysis of such fundamental theories and problems in social and political thought as political obligation, rights, and justice. Prerequisite: 1, 3, 4, 95, 96. Offered once a year.

Credits: 3.00

**PHIL 142 - Philosophy of Law I**

(Same as Political Science 143.) Analysis of the nature of law, the relation between law and morality, obligation to obey the law, the judicial decision, responsibility in law, legal ethics. Prerequisite: 1, 3, 4, 95, 96 or Political Science 41. Offered once a year. (Political Science).

Credits: 3.00

**PHIL 143 - Philosophy of Law II**

(Same as Political Science 144.) Problems of liberty, e.g. freedom of expression, privacy, paternalism; scope and limits of the criminal law; philosophy of punishment; selected problems in criminal justice, e.g. plea bargaining; preventive detention. Prerequisite: 1, 3, 4, 95, 96 or Political Science 41. Offered once a year. (Political Science).

Credits: 3.00

**PHIL 144 - Philosophical Prob Medicine**

Critical and intensive examination of such problems as abortion, euthanasia, dying and death, the ethics of organ transplantation, and the ethics of genetic engineering. Prerequisite: 1, 3, 4, 95, 96. . Offered once a year.

Credits: 3.00

**PHIL 151 - Phil Ideas in Literature**

Philosophical themes as exemplified in literature. Prerequisite: 1, 3, 4, 95, 96. Alternate years.

Credits: 3.00



**PHIL 152 - Philosophy of Art**

A consideration of some leading theories of art, and their application to problems of art as they appear in music, literature, painting, and in the general criticism of the arts. Prerequisite: 1, 3, 4, 95, 96. Offered once a year.

Credits: 3.00

**PHIL 153 - Philosophy and Film**

An examination of style in film from the perspective of philosophical aesthetics, and of the ways film style can be used to express philosophical themes.

Prerequisite: 1, 3, 4, 95, 96.

Credits: 3.00

**PHIL 160 - Continental Philosophy**

An explanation of such movements in Continental philosophy as phenomenology, existentialism, and structuralism and such figures as Husserl, Heidegger, Sartre, and Foucault. Prerequisites: One of 1, 3, 4, 95, 96 or instructor's permission.

Credits: 3.00

**PHIL 170 - Feminism:Theories and Issues**

Theories of libertarianism, liberalism, and egalitarianism; application to the analysis and evaluation of social issues of contemporary interest, such as abortion and affirmative action. Prerequisite: One course in philosophy.

Credits: 3.00

**PHIL 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**PHIL 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**PHIL 197 - Readings & Research**

Credits: 3.00

**PHIL 198 - Readings & Research**

Credits: 3.00

**PHIL 205 - Seminar:Major Phil Author/School**

Study of major philosophical texts by a single author or school of thought. May be repeated for credit when different authors are studied. Pre/co-requisites: One philosophy course at 100-level.

Credits: 3.00

**PHIL 208 - Kant**

An examination of issues in the philosophy of Immanuel Kant. Pre/co-requisites:

One philosophy course at the 100-level.

Credits: 3.00

**PHIL 211 - Phil of Mind:Advanced Topics**

In-depth study of topics like consciousness, the relation between the mental (belief, sensations, etc.) and the physical (chemicals, neurons, etc.) and how minds represent things. Pre/co-requisites: One philosophy course at the 100-level.

Credits: 3.00

**PHIL 215 - Free Will**

In this course we will explore whether we have genuine free will, and, if not, how this should affect our views about morality, justice and the meaning of life. Pre/co-requisites: One philosophy course at the 100-level.

Credits: 3.00

**PHIL 216 - The Self**

An examination of the nature of the self. We will explore the implications of divided consciousness and ask what makes one the same person over time. Pre/co-requisites: One philosophy course at 100-level.

Credits: 3.00

**PHIL 217 - Philosophy of Language**

Philosophical study of the nature of language. Prerequisite: Linguistics 101, 102. Alternate years.

Credits: 3.00

**PHIL 218 - Metaphysics:Advanced Topics**

In-depth study of such topics as vagueness, the nature of time, persistence of objects and people through change, and whether numbers of properties exist. Pre/co-requisites: One philosophy course at the 100-level.

Credits: 3.00

**PHIL 219 - Epistemology:Advanced Topics**

In-depth study of select topics concerning theories of knowledge and related concepts such as belief, truth, rationality, evidence, perception, and memory. Pre/co-requisites: One philosophy course at the 100-level

Credits: 3.00

**PHIL 221 - Topics in Chinese Philosophy**

Detailed examination of a classical Chinese philosophical text or school. Prerequisite: 121 or 122. Alternate years.

Credits: 3.00

**PHIL 235 - Topics in Philosophy of Religion**

Advanced study of such issues as the metaphysics of religion, the epistemology of religious belief, philosophy and faith, religion and science, and religion and ethics.

(May be repeated for credit when topic is significantly different and with departmental approval.) Prerequisites: 101, 102 or 135.

Credits: 3.00

**PHIL 240 - Contemporary Ethical Theory**

Analysis of the ideas of contemporary moral philosophers in normative ethics and metaethics. Prerequisite: 140, 142, 143 or 144. Alternate years.

Credits: 3.00

**PHIL 241 - Cont Social & Political Phil**

An analysis of the ideas of contemporary philosophers in social and political philosophy. Prerequisite: 140, 142, 143, or 144. Alternate years.

Credits: 3.00

**PHIL 242 - Justice & Equality**

(Same as Political Science 241.) An examination of contemporary normative theories of distributive justice and equality. Prerequisite: 140, 142, 143, or 144. Offered once a year. (Political Science).

Credits: 3.00

**PHIL 244 - Phil of Medicine:Adv Topics**

In-depth study of issues in contemporary medical ethics such as genetic engineering, cloning, embryonic stem cell research, abortion and physician-assisted suicide. Pre/co-requisites: One philosophy course at 100-level.

Credits: 3.00

**PHIL 260 - Topics in Continental Phil**

Study of a central issue in current continental philosophy, e.g. social theory, psychoanalysis, or aesthetics. Readings from Nietzsche, Heidegger, Gadamer, Ricoeur, Habermas, Derrida, and Foucault. Prerequisites: Any course in philosophy at the 100 level or above, or instructor's permission. (May be repeated for credit when topic is significantly different.) Alternate years.

Credits: 3.00

**PHIL 295 - Adv Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**PHIL 296 - Adv Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**PHIL 297 - Adv Readings & Research**

Independent study with an instructor on a specific philosopher or philosophical problem. Prerequisite: An appropriate 200-level course in philosophy.

Credits: 3.00

**PHIL 298 - Adv Readings & Research**

Independent study with an instructor on a specific philosopher or philosophical problem. Prerequisite: An appropriate 200-level course in philosophy.

Credits: 3.00

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## Courses in Physical Education (PEAC)

### PEAC 000 - Varsity Sports

Credits: 1.00

### PEAC 001 - Remedial Physical Education

Credits: 1.00

### PEAC 002 - Conditioning 1-4

Credits: 1.00

### PEAC 004 - Weight Training 1-4

Credits: 1.00

### PEAC 005 - Club Sports

Credits: 1.00

### PEAC 008 - Fitness & Weight Control 1-4

Credits: 1.00

### PEAC 010 - Fitness & Aging

Credits: 1.00

### PEAC 014 - Orienteering 1-2

Basic practical skills such as maps, compass, and environmental awareness. Classroom participation, written exams, and completion of an orienteering course determine student grades. Open to all First-Year and Sophomore students. Cross-listed with: MS 014. Fall/Spring.

Credits: 1.00

### PEAC 015 - Rappelling

Credits: 1.00

**PEAC 016 - Gymnastics 1-4**

Credits: 1.00

**PEAC 017 - Military Fitness**

Vigorous workout three days a week designed to build both upper body strength and aerobic ability. Classroom participation and a final Army Physical Fitness Test determine student grades. Open to all First-Year/ Sophomore students. Cross-listed with: MS 017. Fall/Spring.

Credits: 1.00

**PEAC 019 - Backpacking**

Techniques of planning and organizing a backpacking trip. Basic instruction includes clothing, equipment, and environmental awareness. Includes one overnight backcountry trek. Student grades determined by class participation and participation in the practical exercise. Open to all First-Year and Sophomore students. Cross-listed as MS 019. Cross-listed with: MS 019. Fall/Spring.

Credits: 1.00

**PEAC 020 - Triathlon Training**

Credits: 1.00

**PEAC 021 - Walking for Fitness 1-4**

Credits: 1.00

**PEAC 024 - Stress Reduction 1-4**

Credits: 1.00

**PEAC 028 - Conditioning Act**

Credits: 1.00

**PEAC 031 - Aerobic Exercise 1-4**

Credits: 1.00

**PEAC 035 - Low Impact Aerobics 1-4**

Credits: 1.00

**PEAC 036 - Swimming 1-3**

Credits: 1.00

**PEAC 038 - Swimming 3-4**

Credits: 1.00

**PEAC 039 - Swim for Fitness**

Credits: 1.00

**PEAC 041 - Lifeguard Training**

Credits: 1.00

**PEAC 045 - Intermediate Sailing**

Credits: 1.00

**PEAC 047 - Scuba**

Credits: 1.00

**PEAC 049 - Learn to Sail**

Credits: 1.00

**PEAC 050 - Individual Sports**

Credits: 1.00

**PEAC 052 - Hatha Yoga**

Credits: 1.00

**PEAC 053 - Archery 1-4**

Credits: 1.00

**PEAC 056 - Badminton 1-2**

Credits: 1.00

**PEAC 057 - Badminton 2**

Credits: 0.50

**PEAC 058 - Badminton 3-4**

Credits: 1.00

**PEAC 059 - Fencing**

Credits: 1.00

**PEAC 060 - Badminton 4**

Credits: 0.50

**PEAC 061 - Bowling 1-4**

Credits: 1.00

**PEAC 062 - Bowling 3-4**

Credits: 1.00

**PEAC 063 - Horseback Riding 1-4**

Credits: 0.50

**PEAC 064 - Skating 1**

Credits: 0.50

**PEAC 065 - Figure Skating 1-4**

Credits: 1.00

**PEAC 066 - Inter Skating**

Credits: 0.50

**PEAC 070 - Racquet Sports**

Credits: 1.00

**PEAC 071 - Handball 1-2**

Credits: 1.00

**PEAC 075 - Judo 1-4**

Credits: 1.00

**PEAC 079 - Racquetball 1-4**

Credits: 1.00

**PEAC 081 - Racquetball 3-4**

Credits: 1.00

**PEAC 085 - Telemarking 1-4**

Credits: 1.00

**PEAC 086 - Snowboarding 1-4**

Credits: 1.00

**PEAC 087 - Downhill Skiing 1-4**

Credits: 1.00

**PEAC 088 - Ski Instructors**

Credits: 1.00

**PEAC 089 - X-Country Skiing 1-4**

Credits: 0.50

**PEAC 092 - Squash 1-2**

Credits: 1.00

**PEAC 096 - Tennis 1-2**

Credits: 1.00

**PEAC 098 - Tennis 3-4**



Credits: 1.00

**PEAC 100 - Tennis 5-6**

Credits: 1.00

**PEAC 105 - Outdoor Recreation**

Credits: 1.00

**PEAC 108 - Moo Gong Do 1-2**

Credits: 1.00

**PEAC 111 - Golf 1**

Credits: 1.00

**PEAC 112 - Golf 2**

Credits: 0.50

**PEAC 113 - Golf 1-4**

Credits: 1.00

**PEAC 114 - Mountain Biking**

Credits: 1.00

**PEAC 117 - Racquetball 5-6**

Credits: 1.00

**PEAC 125 - Team Sports 1**

Credits: 1.00

**PEAC 126 - Team Sports 2**

Credits: 1.00

**PEAC 143 - Volleyball 1**

Credits: 1.00

**PEAC 144 - Volleyball 2**

Credits: 0.50

**PEAC 145 - Volleyball 3-4**

Credits: 1.00

**PEAC 146 - Volleyball 4**

Credits: 0.50

**PEAC 147 - Volleyball 5-6**

Credits: 1.00

**PEAC 150 - Introduction to Dance**

Credits: 1.00

**PEAC 161 - Modern Jazz 1-2**

Credits: 1.00

**PEAC 163 - Modern Jazz 3-4**

Credits: 1.00

**PEAC 165 - Jazz Aerobics 1-2**

Credits: 1.00

**PEAC 166 - Ballet 1-2**

Credits: 1.00

**PEAC 168 - Ballet 3-4**

Credits: 1.00

**PEAC 171 - Modern Dance 1-2**

Credits: 1.00

**PEAC 179 - Folk & Square Dancing 1-2**

Credits: 1.00

**PEAC 185 - Ballet 5-6**

Credits: 1.00

**PEAC 187 - Ballroom Dance 1-2**

Credits: 1.00

**PEAC 188 - Orchesis Dancers**

Credits: 1.00

**PEAC 189 - Social Dance:International**

Credits: 0.50

**PEAC 190 - Dance for Majors**

Credits: 1.00

**PEAC 199 - Physical Education Activities**

Credits: 1.00

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## Courses in Physical Education-Prof (EDPE)

### EDPE 021 - Foundations of Phys Educ

Examination of the development of physical education as an academic discipline and profession, its foundations, current trends, issues and career opportunities. Prerequisite: Physical Education majors; others by Instructor permission.

Credits: 3.00

### EDPE 023 - Amer Red Cross Emergency Resp

To meet the needs of individuals who are in a position to provide first aid and emergency care frequently. Red Cross certification for successful performance in Advanced First Aid Emergency Care. Prerequisite: PE, HDS, and Health majors; others by Instructor permission.

Credits: 3.00

### EDPE 024 - Life Skills: Student Athletes

This course provides students with skills training for academic and athletic success, alcohol education and prevention, and moral reasoning and decision-making.

Credits: 1.00

### EDPE 032 - Recreational Sport Officiating

Basic techniques and skills of rule interpretation for officiating recreational sport competition.

Credits: 2.00

### EDPE 055 - Special Topics I

Credits: 3.00

### EDPE 100 - Integ Movement/Elem School Cur

Planning and implementing movement-based lessons and integrating movement

across the curriculum for children aged 5-12.

Credits: 3.00

**EDPE 104 - Phys Educ Teaching Experience**

Experience-based course sequence emphasizing relationship of motor development to learning. Includes age level needs and appropriate physical education activity sequences. First semester: grades K-3; second semester (EDPE 105); grades 4-6. Prerequisites: EDPE 023 or EDPE 157; Junior standing.

Credits: 5.00

**EDPE 105 - Phys Educ Teaching Experience**

Experience-based course sequence emphasizing relationship of motor development to learning. Includes age level needs and appropriate physical education activity sequences. First semester: grades K-3; second semester (EDPE 105); grades 4-6. Prerequisites: EDPE 023 or EDPE 157; Junior standing.

Credits: 5.00

**EDPE 121 - Coaching Baseball**

Theory and technique of coaching interscholastic baseball. Includes practice, game, and schedule organizations. Prerequisite: Skill competency in baseball; Sophomore standing, or Instructor permission.

Credits: 2.00

**EDPE 145 - Seminar in Athletics**

Contemporary issues, strategy, analysis, and problems areas related to selected comparative sports.

Credits: 3.00

**EDPE 155 - Phys Educ in Secondary Schl**

Theories of teaching which include unit plan development, classification and grouping of students for instruction, and a variety of teaching methods. Laboratory experience in teaching activity skills to youth aged 12-18. Prerequisites: Junior standing; PE majors only.

Credits: 4.00

**EDPE 166 - Kinesiology**

Designed for the teacher/coach to analyze factors of peak physical performance. Muscle actions, mechanical principles, related factors enhancing movement are emphasized. Prerequisite: One year of biological science; PE majors, coaching minors, students enrolled in Athletic Training Concentration, Sports Nutrition; others by instructor's permission.

Credits: 3.00

**EDPE 167 - Exercise Physiology**

Investigates physiological responses during exercise. Laboratory, classroom experiences enable understanding of bodily responses during exercise. Content

includes energy metabolism, muscular, cardiovascular, pulmonary responses, and temperature regulation. permission. nutrition, Athletic Training; others by instructor's Prerequisites: PE majors, coaching minors, sports

Credits: 4.00

**EDPE 168 - Measurement&Data Analysis**

Introductory statistics and research design class. Covers basic statistics--t-tests, measurement scales, discussed. Prerequisites: EXSS majors only; others by instructor's permission. education and exercise science are specifically Anova, correlations, etc. Application in physical

Credits: 3.00

**EDPE 173 - Practicum in Field Experience**

Individually prescribed teaching experience involving work with youth groups in activities related to physical education, health, or recreation. Responsibilities approximate those commonly associated with student teaching. Prerequisites: EDPE 104, EDPE 105, or EDPE 155; Instructor permission.

Credits: 3.00

**EDPE 181 - Student Teaching**

Teaching in elementary or secondary schools under guidance of cooperating teachers, principals and college supervisors. A full-time, full semester, 12-credit experience. Prerequisites: Acceptance into the teacher education program; must meet criteria for student teaching. Variable credit, three to twelve hours.

Credits: 12.00

**EDPE 182 - Student Teaching Seminar**

Provides students opportunities to discuss, process, give and receive input and to receive materials to support and enhance their experience, and develop licensure portfolio. Prerequisite: Concurrent with EDPE 181.

Credits: 2.00

**EDPE 185 - Injury Eval&Rec: Athl Training**

Course is integrative and clinical in nature, consisting of injury evaluation and recognition skills. Injury mechanisms, etiology, pathology, clinical signs and symptoms. Prerequisites: EDPE 157, EDPE 158.

Credits: 4.00

**EDPE 195 - Hlth/Fitness Ldrshp&Programmng**

Practical approach to significance, theories, and characteristics of leadership content, and methods of program planning. Field work practice in planning and leadership techniques. Prerequisite: EDPE 021.

Credits: 3.00

**EDPE 197 - Readings & Research**

Credits: 4.00

**EDPE 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

**EDPE 220 - Sport in Society**

Examines sport as a social institution, emphasizing interrelationships between sport and the social context in which it exists; analyzes functions and dysfunctions of sport in contemporary society. Prerequisite: SOC 001, SOC 019, or equivalent.

Credits: 3.00

**EDPE 240 - Motor Skill Learning & Control**

Nature of motor learning; factors affecting motor learning (motivation, emotion, stress); concepts of transfer, retention; alternatives in teaching, coaching methodologies based upon applied principles in motor learning. Prerequisites: 166, ECHD 62 or 63, or equivalent.

Credits: 3.00

**EDPE 241 - Sem in Phys Educ & Athletics**

Examination and analysis of contemporary issues and trends in physical education and athletics not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in physical education and related areas.

Credits: 3.00

**EDPE 260 - Adapted Physical Activity**

Recognition, prevention, correction of functional, structural deviations from normal body mechanics. Organization of programs adapted to needs of handicapped individuals in both special class and mainstreamed settings. Prerequisite: 155, 104, 105 or equivalent teaching experience.

Credits: 3.00

**EDPE 265 - Exercise & Sport Science**

Discussion and integration of topics related to exercise physiology, kinesiology, motor learning, and sociocultural aspects of sport. Prerequisites: 166, 167, 220, 240; senior standing, or permission. UG only.

Credits: 3.00

**EDPE 266 - Ex Prescrip:Sprt,Hlth,Fit,Perf**

Course covers basic concepts of exercise prescription and exercise program design. Particular attention is paid to individualization of exercise program to meet participant needs.

Credits: 3.00

**EDPE 267 - Sci Strength Training&Condtnng**

Course focuses on physiology of muscle adaptation following resistance or aerobic training. Particular attention is paid to specificity of metabolic adaptation for individual sports.

Credits: 3.00

**EDPE 295 - Lab Experience in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 12.00

**EDPE 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1.00 to 12.00

**EDPE 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1.00 to 6.00



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## Courses in Physical Therapy (PT)

### PT 095 - Special Topics

Credits: 3.00

### PT 201 - Clinical Science&Practice Sem

A comprehensive in-depth presentation of the scientific basis of human function. Primarily for physical therapy students; a limited number of others may be admitted with permission. Prerequisite: CHEM 023 and CHEM 042 or equivalent; two semesters general Physics; one semester Mathematics; Instructor permission. Co-requisite: PT 211, PT 221.

Credits: 2.00

### PT 202 - Clinic Science&Practice Sem II

Forum to learn, analyze and discuss scientific, clinical and professional issues related to individuals with non-complex conditions involving the cardiopulmonary system and spinal musculoskeletal problems. Prerequisite: PT 201. Co-requisite: PT 212, PT 222, PT 232.

Credits: 2.00

### PT 211 - Clinical Skills Laboratory I

Laboratory experiences in which students will learn foundational biomechanical principles, kinesiology of joints and practice observational, verbal, written, manual and intellectual skills involved in PT examination, evaluation, and management of patients with non-complex conditions of the peripheral joints of the musculoskeletal system. Co-requisite: PT 201, PT 221.

Credits: 3.00

### PT 212 - Clinical Skills Labs II

Laboratory to practice skills in PT examination, evaluation, and management of patients with non-complex conditions involving primarily peripheral and spinal



musculoskeletal problems. Prerequisites: ANNB 201; MPBP 201; PT 210, 211, 221. Co-requisites: PT 202, 222,232; MPBP 202.

Credits: 3.00

**PT 221 - Tutorial I-Clin Care Issues I**

Tutorials to investigate, apply and integrate relevant basic and social sciences applied to persons with non-complex conditions involving primarily peripheral joint problems of the neuromusculo-skeletal system. Co-requisite: PT 201; PT 211.

Credits: 2.00

**PT 222 - Tutorials II**

Tutorials where students investigate, apply and integrate foundational sciences as applied to patients with non-complex conditions involving the cardiopulmonary system and spinal musculoskeletal problems. Prerequisite: PT 221. Co-requisite: PT 202, PT 212, PT 232.

Credits: 2.00

**PT 232 - Clinical Education I**

Clinical experience to understand the role of the physical therapist. Practice specific skills of examination, evaluation and intervention in primarily out-patient musculo-skeletal settings. Pre-requisite: PT 201, PT 211, PT 221. Co-requisite: PT 202, PT 212, PT 222.

Credits: 2.00

**PT 255 - Prof Abilities Assessment**

Assessment of students' professional behaviors by faculty, based upon generic abilities and the expected stage of development, examined within all courses during the semester.

Credits: 0.00

**PT 302 - Prof Practice I**

Credits: 3.00

**PT 315 - Clinical Skills Lab III**

Students practice observational, verbal, written, manual, and intellectual skills in PT examination, evaluation, and management of peripheral neuro-musculo-skeletal, metabolic and multiple systems impairments and disabilities.

Prerequisites:211,212. Co-requisites:323, 341, 333, 355.

Credits: 4.00

**PT 316 - Clinical Skills Lab IV**

Students practice observational, verbal, written, manual, and intellectual skills in PT examination, evaluation, and management of individuals with various neurological conditions. Prerequisite: PT 211, PT 212, PT 315. Co-requisite: PT 324, PT 342, PT 355.

Credits: 4.00

**PT 317 - Clinical Skills Laboratory V**

Therapeutic approaches to pain, restoration of function and movement, assistive technology, training and education, patient advocacy, and coordination of care throughout the life span. Prerequisite: PT 211, PT 212, PT 315, PT 316. Co-requisite: PT 325, PT 334, PT 343.

Credits: 3.00

**PT 323 - Tutorial III**

Small group tutorials to investigate, apply and integrate the relevant foundational sciences pertaining to persons with peripheral neuro-musculo-skeletal, metabolic and multiple systems impairments and disabilities. Prerequisite: PT 221, PT 222.

Credits: 4.00

**PT 324 - Tutorial IV**

Small group tutorials to investigate, apply and integrate the relevant foundational sciences pertaining to persons with various neurological conditions. Prerequisite: PT 221, PT 222, PT 323. Co-requisite: PT 316, PT 342, PT 355.

Credits: 4.00

**PT 325 - Tutorials V**

Explore inter-relationships between clinical conditions, health, politics, culture, ethics and professionalism, focusing on role of physical therapists as consultant, patient advocate and health team member. Prerequisite: PT 221, PT 222, PT 323, PT 326. Co-requisite: PT 316, PT 334, PT 343.

Credits: 3.00

**PT 333 - Clinical Education II**

6-week clinical experience providing opportunities for integration of didactic information and clinical skills for safe, effective, comprehensive patient care in same setting as Clinical Education I. Prerequisite: PT 202, PT 212, PT 222, PT 232.

Credits: 3.00

**PT 334 - Clinical Education III**

A 8-week full-time experience integrating didactic information with clinical skills in one of three treatment settings. Focus: critical thinking, problem solving, and application of skills. Prerequisite: PT 232, PT 333.

Credits: 6.00

**PT 335 - Clinical Education IV**

Two 8-week, full-time clinical experiences integrating didactic information and clinical skills. Practice and refine skills, attitudes and behaviors. A variety of clinical settings is required. Prerequisite: PT 232, PT 333, PT 334.

Credits: 6.00

**PT 336 - Clinical Education V**

Two 8-week, full-time clinical experiences integrating didactic information and clinical skills. Practice and refine skills, attitudes and behaviors. A variety of clinical settings is required. Prerequisites: 232, 333, 334, 335.

Credits: 6.00

**PT 341 - Clin Science&Practice Sem III**

Large group forum to learn, analyze, and discuss scientific, clinical, and professional practice issues related to peripheral neurologic, metabolic, and multiple systems impairment and disabilities. Prerequisite: PT 201, PT 202. Co-requisite: PT 315, PT 323, PT 333, PT 355.

Credits: 4.00

**PT 342 - Clin Science&Practice Sem IV**

Learn analyze and discuss scientific, clinical and professional practice issues regarding individuals with systems problems, using patient/family centered approach. Prerequisite: PT 201, PT 202, PT 341. Co-requisite: PT 316, PT 324, PT 355.

Credits: 4.00

**PT 343 - Clin Science & Practice Sem V**

Explore global/societal aspects of health care delivery, focusing on role of physical therapist as consultant, interdisciplinary health team member, and advocate in health care. Prerequisite: PT 201, PT 202, PT 341, PT 342. Co-requisite: PT 316, PT 325, PT 334.

Credits: 4.00



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## Courses in Physics (PHYS)

### PHYS 011 - Elementary Physics

Algebra-based survey of mechanics, oscillations, waves and thermal physics. Appropriate for students in health and life sciences. Accompanying lab: PHYS 021. Prerequisites: High-school algebra and trigonometry. and trigonometry.  
Credits: 4.00

### PHYS 012 - Elementary Physics

Algebra-based survey of electricity, magnetism, optics and modern physics. Appropriate for students in health and life sciences. Accompanying lab: PHYS 022. Prerequisites: High-school algebra and trigonometry; PHYS 011 or PHYS 031.  
Credits: 4.00

### PHYS 021 - Introductory Lab I

Prerequisite: Concurrent enrollment or credit in 11 or 31.  
Credits: 1.00

### PHYS 022 - Introductory Lab II

Prerequisite: Concurrent enrollment or credit in 12 or 42.  
Credits: 1.00

### PHYS 031 - Introductory Physics

Mechanics including oscillations, waves, heat, and kinetic theory. Recommended for students in engineering, natural sciences, premedical programs. Accompanying lab: 21. Prerequisites: Math. 21, secondary school trigonometry.  
Credits: 4.00

### PHYS 042 - Electromagnetism & Modern Phys

Electricity, magnetism, optics, modern physics. Recommended for students in

engineering, natural sciences, premedical programs. Accompanying lab: 22.

Prerequisite: 31, Math. 22.

Credits: 4.00

**PHYS 044 - The Physics of Music**

Basic physical principles underlying the production, transmission and perception of musical sound. Vibrations, waves, elementary acoustics with applications to a wide range of musical topics. Pre-requisite: High School Algebra.

Credits: 3.00

**PHYS 095 - Special Topics**

Credits: 4.00

**PHYS 096 - Special Topics**

Credits: 3.00

**PHYS 128 - Waves and Quanta**

Classical and electromagnetic waves, physical optics, wave-particle phenomenology, wave mechanics, and applications of the Schrodinger equation.

Prerequisites: 42, Math. 121.

Credits: 4.00

**PHYS 130 - Introductory Laboratory III**

Prerequisite: Concurrent enrollment or credit in PHYS 128.

Credits: 1.00

**PHYS 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisite: PHYS 128; department permission.

Credits: 3.00

**PHYS 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisite: PHYS 128; department permission.

Credits: 3.00

**PHYS 197 - Readings & Research**

Prerequisite: PHYS 128; department permission.

Credits: 1.00 to 6.00

**PHYS 198 - Readings & Research**

Prerequisite: PHYS 128; department permission.

Credits: 1.00

**PHYS 201 - Experimental Physics**

Experiments in classical and modern physics. May be entered at beginning of

either semester and repeated for credit up to a maximum of four semesters.

Prerequisites: 42 or 128, Math. 121, junior standing.

Credits: 3.00

### **PHYS 202 - Experimental Physics**

Experiments in classical and modern physics. May be entered at beginning of either semester and repeated for credit up to a maximum of four semesters.

Prerequisites: 42 or 128, Math. 121, junior standing.

Credits: 3.00

### **PHYS 211 - Mechanics**

Newtonian dynamics of particles and systems of particles, with applications to problems of special importance, such as driven and coupled harmonic oscillators and central field trajectories. Prerequisites: 42, Math. 121.

Credits: 3.00

### **PHYS 213 - Electricity & Magnetism**

Fundamental principles of electricity and magnetism; electrostatic fields, and magnetic fields of steady currents. Electric and magnetic properties of matter and electromagnetic energy. Prerequisites: 42, Math. 121. Credit not given for more than one of 213 or Electrical Engineering 141.

Credits: 3.00

### **PHYS 214 - Electromagnetism**

Introduction to time dependent electromagnetic fields. Maxwell's equations in vacuum and in matter. Electromagnetic waves and radiation. Prerequisite: 213. Credit not given for more than one of 214 or Electrical Engineering 142.

Credits: 3.00

### **PHYS 222 - Biological Physics**

Physical laws, processes, and interactions pertaining to biological systems.

Prerequisites: 12 or 42, Math. 121.

Credits: 3.00

### **PHYS 242 - Intro to Solid State Physics**

Introduction to crystal structures, reciprocal lattices, lattice vibrations. Thermal properties of solids and free electron theory of metals and semiconductors. Elementary band theory and introduction to electronic transport theory.

Prerequisite: PHYS 128.

Credits: 3.00

### **PHYS 257 - Modern Astrophysics**

Stellar structure and evolution, compact objects, the interstellar medium, galactic structure, gravitational theory, and cosmology, the formation of our solar system and terrestrial life. Prerequisite: One 100-level course in physical science or engineering. Cross-listed with: ASTR 257.

Credits: 3.00

**PHYS 258 - Relativity**

Development of Einstein's theory of special relativity. Lorentz transformation, time dilation, length contraction, mass variation, relative velocities. Introduction to four-dimensional space. Concepts of general relativity. Applications selected from astrophysics, elementary particles, etc. Prerequisite: PHYS 128.

Credits: 3.00

**PHYS 264 - Nuclear & Elem Particle Physic**

Introduction to theoretical and experimental aspects of nuclear and elementary particle physics. Prerequisite: PHYS 128; Junior standing.

Credits: 3.00

**PHYS 265 - Thermal Physics**

Thermodynamics, kinetic theory, statistical mechanics. Prerequisites: 42; Math. 121.

Credits: 3.00

**PHYS 273 - Quantum Mechanics I**

Introduction to nonrelativistic quantum mechanics. Schrodinger equation and applications to simple systems. Prerequisite: PHYS 128, PHYS 211.

Credits: 3.00

**PHYS 274 - Applicatns of Quantum Mechanics**

Applications of Quantum Mechanics including Quantum Statistical Mechanics, Time-Independent and Time- Dependent Perturbation Theory, WKB Approximation, Variational Principle and Scattering. Pre/co-requisite: PHYS 273.

Credits: 3.00

**PHYS 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**PHYS 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**PHYS 301 - Mathematical Physics**

Introduction to basic mathematical methods of theoretical physics; vector and tensor analysis, partial differential equations, orthogonal functions, complex variables and variational techniques. Prerequisites: PHYS 211, PHYS 214. Alternate years.

Credits: 3.00

**PHYS 305 - Teaching of College Physics**

Instructional strategies and techniques with application to the teaching of laboratories and recitations. Prerequisites: Undergraduate degree in Physics; Instructor permission.

Credits: 1.00

**PHYS 311 - Advanced Dynamics**

Classical mechanics presented as the basis of the concepts and methods of modern physics. Variational, Lagrangian, and Hamiltonian formulations, canonical transformations, continuous systems. Prerequisite: PHYS 211. Alternate years.

Credits: 3.00

**PHYS 313 - Electromagnetic Theory**

Development of Maxwell's theory of electromagnetism emphasizing its physical basis and the modes of mathematical description. Prerequisite: PHYS 214. Alternate years.

Credits: 3.00

**PHYS 321 - Theoretical Physics**

For research students interested in pursuing topics of general and departmental research interest in theoretical physics. Prerequisite: Instructor Permission. Offered as occasion warrants.

Credits: 3.00

**PHYS 323 - Contemporary Physics**

Topics of current interest in physics to be offered as student and faculty interest warrants. May be repeated for credit with department approval. Prerequisite: Instructor Permission.

Credits: 3.00

**PHYS 341 - Solid State Physics**

Introduction to crystal symmetry and the reciprocal lattice. Crystal binding and lattice vibrations. Thermal, electrical, and magnetic properties of solids, free electron theory of metals, and band theory. Prerequisites: PHYS 214, PHYS 265, PHYS 273 or their equivalents; Instructor permission.

Credits: 3.00

**PHYS 351 - Seminar: Physics of Materials**

For research students in the field of the physics of materials. Lectures, reports, and directed readings related to the research for the department and the field generally. May be repeated for credit with departmental approval. Prerequisite: Instructor Permission. Offered as occasion warrants.

Credits: 3.00

**PHYS 362 - Quantum Mechanics II**

Mathematical and physical foundations of nonrelativistic quantum mechanics from the unifying point of view of Dirac. Symmetry operations and the algebraic



structure of quantum mechanics are emphasized. Prerequisite: PHYS 273.

Alternate years.

Credits: 3.00

**PHYS 391 - Master's Thesis Research**

Credits: 1.00 to 12.00



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## Courses in Plant & Soil Science (PSS)

### PSS 010 - Home & Garden Horticulture

Planning, selecting, and maintaining shrubs, trees, flowers, lawns, fruits, and vegetables around the home. Designed primarily for non-agricultural students.

Credits: 3.00

### PSS 011 - Principles of Plant Science

Principles and practices involved in the culture, management, and utilization of economically important horticulture and agronomic crops.

Credits: 3.00

### PSS 021 - Introduction to Ecological Agr

Ecological concepts as applied to agriculture including farm visits. Prerequisites: Must be enrolled in the Ecological Agriculture major or permission.

Credits: 3.00

### PSS 095 - Special Topics

Courses or seminars on topics beyond the scope of existing department offerings.

Credits: 3.00

### PSS 096 - Special Topics

Courses or seminars on topics beyond the scope of existing department offerings.

Credits: 3.00

### PSS 106 - Entomology & Pest Mgmt

Survey of the major insect orders, and methods for controlling injurious species.

Prerequisite: 11.

Credits: 4.00

### PSS 107 - Forest Entomology

Ecology and population dynamics of insects affecting forests and forest products. Insect control by silvicultural, biotic, and chemical means. Prerequisite: Junior standing in Forestry or Urban Forestry and Landscape Horticulture.

Credits: 3.00

**PSS 117 - Plant Pathology**

Introduction to the causes of plant disease including the relationship of the plant, pathogen, and environment in disease development and disease management.

Prerequisites: BOT 4 or BIOL 1,2 or PSS 11. Alternate years.

Credits: 4.00

**PSS 121 - Indoor Plants**

Indoor flowers, culture, related topics such as design. Prerequisite: PSS 10 or 11 or Botany 4 or permission. Alternate years.

Credits: 1.00

**PSS 123 - Garden Flowers**

Outdoor flowers, culture, related topics. Prerequisite: PSS 10 or 11 or Botany 4 or permission. Alternate years.

Credits: 3.00

**PSS 124 - Vegetable Crop Production**

Principles and practices of commercial vegetable fruit and root crop production, including seed production, propagation, tillage, cultural practices, and nutrition value. (Alternate years) Pre/co-requisites: PSS 11

Credits: 4.00

**PSS 125 - Woody Landscape Plants**

Identification, climatic requirements, cultural management, and use of ornamental plant materials in landscape planting. Prerequisite: 11 or Botany 4 or permission.

Credits: 4.00

**PSS 127 - Greenhouse Operations & Mgmt**

Principles and practices of commercial greenhouse management including construction, heating, cooling, container media, watering, fertilization, light and temperature, growth regulators, integrated pest management and disease control.

Prerequisite: PSS 11. Alternate years.

Credits: 4.00

**PSS 131 - Landscape Design 1**

A studio course emphasizing theory of landscape design and its application to actual landscape design problems. Graphic communication techniques included.

Prerequisite: PSS 11 or permission.

Credits: 3.00

**PSS 132 - Landscape Design 2**

Advanced techniques in landscape design. Grading, construction details, graphic techniques, site analysis as well as various design problems. Prerequisite: PSS 125 or PSS 131, or RM 138, or permission.

Credits: 3.00

**PSS 138 - Commercial Plant Propagation**

Principles and practices involved in propagating herbaceous and woody plants by seeds, division, layering, cuttings, budding, grafting, and aseptic culture.

Prerequisite: PSS 11 or permission.

Credits: 4.00

**PSS 143 - Forage Crop Management**

Identification, establishment, and management of crops grown for hay, pasture, and silage. Prerequisite: PSS 11 or 3 credits in Biology or Botany or permission.

Cross-listing: ASCI 143. Alternate years.

Credits: 4.00

**PSS 145 - Turfgrass Management**

Establishment, maintenance, and utilization of turf for aesthetic, athletic and utility functions. Prerequisite: PSS 11 or 3 credits in Botany or permission. (Alternate years)

Credits: 3.00

**PSS 152 - Agroecology**

An ecosystem approach to agriculture. Ecological thinking in agriculture, plant/soil ecosystems, ecological design principles and specific sustainable systems (permaculture, biodynamics, agroforestry, organic). Prerequisite: Three credits in a basic biological or ecological science or permission. Alternate years.

Credits: 3.00

**PSS 154 - Composting Ecology & Mgmt**

Examines ecological, physical and chemical principles, the practical management of the composting process, and benefits of using compost in plant and soil ecosystems. Prerequisite: 3 credits in basic biological or ecological science or permission. Alternate years.

Credits: 3.00

**PSS 156 - Permaculture**

Design of agriculturally productive environments that have the diversity, stability, and resilience of the natural biosphere to harmoniously integrate landscape and people. Prerequisite: Three credits in a basic biological or ecological science, or permission. Cross-listed with: ENVS 156.

Credits: 3.00

**PSS 158 - Internship:Eco Ag/Landscape Hrt**

Academically oriented hands-on experience in agriculture and horticulture under

the joint supervision of instructor and host. Pre/co-requisites: Must be a senior in the Ecological Agriculture Major or the Sustainable Landscape Horticulture Major or permission.

Credits: 3.00

**PSS 161 - Fundamentals of Soil Science**

Biological, chemical, and physical properties of the dynamic soil system as related to plant growth and environmental problems. Prerequisite: Inorganic chemistry or permission.

Credits: 4.00

**PSS 162 - Soil Fertility & Management**

An agroecological analysis of soil fertility management including nutrient supply and uptake, rhizosphere-microbial interactions, fertility evaluations, and management techniques. Prerequisite: PSS 161 or permission.

Credits: 3.00

**PSS 195 - Undergrad Special Topics**

Courses or seminars on topics beyond the scope of existing department offerings. Prerequisite: Instructor permission.

Credits: 6.00

**PSS 196 - Undergrad Special Topics**

Courses or seminars on topics beyond the scope of existing department offerings. Prerequisite: Instructor permission.

Credits: 4.00

**PSS 197 - Undergrad Independent Study**

Individual projects under direction of a faculty member. Project may involve original research, readings, internship, or assisting in teaching. Prerequisite: Permission. More than a total of six credits per semester requires the permission of the Department Chair.

Credits: 6.00

**PSS 198 - Undergrad Independent Study**

Individual projects under direction of a faculty member. Project may involve original research, readings, internship, or assisting in teaching. Prerequisite: Permission. More than a total of six credits per semester requires the permission of the Department Chair.

Credits: 4.00

**PSS 212 - Ecological Farm Mgmt**

Applying basic ecological concepts and principles for practical farm management. Will cover integrated strategies for building healthy soils, integrated pest management and advanced agroecology concepts. Pre/co-requisites: Senior in the Ecological Agriculture Major or Graduate Student. Pss 21, 106, 117, 161, 215

or permission.

Credits: 4.00

**PSS 215 - Weed/Crop Ecology**

Weed identification, reproduction, ecological relationships with crops, and integrated management. Prerequisites: PSS 161 or permission. Alternate years.

Credits: 3.00

**PSS 217 - Ecol & Mgmt of Grazing Systems**

Physiological and ecological relationships of pasture plants with grazing livestock; economic and ecological impact of grazing systems. (Alternate years)

Prerequisites: PSS 11 and 143 or permission.

Credits: 3.00

**PSS 261 - Soil Morph Class & Land Use**

Field techniques that describe soil properties, formation, and classification. The principles and processes of soil genesis, land use classification systems, and land use challenges. Prerequisite: PSS 161 or permission. Alternate years.

Credits: 3.00

**PSS 264 - Chemistry of Soil & Water**

An environmentally oriented study of the colloidal chemistry of soil and its interfaces with roots, water, and air. Prerequisites: PSS 161, two semesters chemistry or permission. Alternate years.

Credits: 4.00

**PSS 266 - Soil Water Movement**

Mathematical modeling and physical principles of the soil-water-plant interaction and its relationship to environmental and agricultural issues. Prerequisites: PSS 161, one semester of physics or permission. Alternate years.

Credits: 3.00

**PSS 269 - Soil/Water Pollution/Bioremed**

Examines key issues in pollution of soil and water. Topics include type of pollutants, their reactions in soil and water, pollution prevention and bioremediation. Alternate years.

Credits: 3.00

**PSS 281 - Sr Seminar:Eco Ag/Lndscp Hrt**

Assessment of students' skills and activities designed to improve them. Including: writing, presentations, problem solving, critical thinking, management, leadership, conflict resolution and career and professional development. Pre/co-requisites: Must be a senior in the Ecological Agriculture Major or the Sustainable Landscape Horticulture Major or permission.

Credits: 3.00

**PSS 295 - Advanced Special Topics**

Lectures, laboratories, readings, field projects, surveys, or research designed to provide specialized experience in horticulture, agronomy, soils, entomology, and integrated pest management. Pre-requisite: Permission.

Credits: 4.00

**PSS 296 - Advanced Special Topics**

Lectures, laboratories, readings, field projects, surveys, or research designed to provide specialized experience in horticulture, agronomy, soils, entomology, and integrated pest management. Pre-requisite: Permission.

Credits: 4.00

**PSS 297 - Advanced Independent Study**

Individual projects under direction of a faculty member. Project may involve original research, readings, internship, or assisting in teaching. Prerequisite: Instructor permission; More than a total of six credits per semester requires Chair permission.

Credits: 4.00

**PSS 298 - Advanced Independent Study**

Individual projects under direction of a faculty member. Project may involve original research, readings, internship, or assisting in teaching. Prerequisite: Instructor permission; more than a total of six credits per semester requires Chair permission.

Credits: 5.00

**PSS 301 - Plant Science Colloquium**

Graduate student and faculty discussion of current research topics in plant science.

Credits: 1.00

**PSS 302 - Soil Science Colloquium**

Graduate student and faculty discussion of current research topics in soil science.

Credits: 1.00

**PSS 381 - Graduate Special Topics**

Advanced readings and discussion of horticulture, crops, or soils research literature.

Credits: 3.00

**PSS 391 - Master's Thesis Research**

Credits: 3.00

**PSS 491 - Doctoral Dissertation Research**

Credits: 1.00 to 18.00



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## Courses in Political Science (POLS)

### **POLS 021 - American Political System**

Institutions, processes, and problems of American government.

Credits: 3.00

### **POLS 029 - American Civil Rights Movemnts**

Examination of American racial discrimination; emphasis on strategies and actions of NAACP, SCLC, SNCC, Black Panthers, Nation of Islam, to end racial discrimination.

Credits: 3.00

### **POLS 041 - Intro Prob Political Thought**

Examination of basic problems in political philosophy, e.g. morality and law; punishment; freedom; equality; obligation and disobedience.

Credits: 3.00

### **POLS 051 - Intro International Relations**

Examination of the basic theoretical concepts in international relations. Introduces the student to systemic, domestic, and individual levels of analysis for assessing foreign policy decisions.

Credits: 3.00

### **POLS 071 - Comparative Political Systems**

Examination of political behavior, political structures, and political processes from a cross-national perspective.

Credits: 3.00

### **POLS 095 - Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.



Credits: 3.00

**POLS 096 - Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**POLS 121 - Law & Politics**

Examination of the U.S. courts focusing on the legal and political factors that influence court action, and judicial action that affects public policy. Prerequisite: POLS 021.

Credits: 3.00

**POLS 122 - Constitutional Law:Gov Powers**

Emphasis on developing skills of legal analysis. Historical origins and general principles of constitutionalism. Prerequisite: POLS 021.

Credits: 3.00

**POLS 123 - The Vermont Political System**

Analysis of the political processes and institutions of governance in Vermont in the context of the federal system and other American states. Prerequisite: POLS 021.

Credits: 3.00

**POLS 124 - The Presidency**

The functions and activities of the president and staff. Prerequisite: POLS 021.

Credits: 3.00

**POLS 125 - Political Parties & Elections**

Analysis of U.S. political parties and elections, including partisan realignments throughout history, campaign technology, and voting for president and Congress. Prerequisite: POLS 021.

Credits: 3.00

**POLS 127 - The Congressional Process**

Organization, procedure, and behavior of the chambers of the U.S. Congress. Prerequisite: POLS 021.

Credits: 3.00

**POLS 129 - Const Law:Civil Rights America**

Critical examination of role of judiciary in enforcing 14th Amendment's "Equal Protection Clause." Prerequisite: POLS 021.

Credits: 3.00

**POLS 131 - Political Leadership**

Methods of identifying leaders, their relationships with nonleaders and with one another, their impact on public policy, and their personalities and social

backgrounds. Prerequisite: POLS 021.

Credits: 3.00

**POLS 132 - US Supreme Court:Proc&Policy**

The U.S. Supreme Court as one of the three major political institutions, including the selection process, intracourt politics, and dynamics of court decision making.

Prerequisite: POLS 021.

Credits: 3.00

**POLS 133 - Public Opinion/Political Part**

Theories and the empirical study of public opinion and political participation.

Topics include: public opinion polling methodology, the origins of political outlooks, ideology, authoritarianism, generational politics, public opinion on race, voting behavior. Prerequisite: POLS 021.

Credits: 3.00

**POLS 137 - Politics and The Media**

The role of the media in politics, including how media presentation and interpretation of events affect public opinion, political institutions, and public policy.

Prerequisite: POLS 021.

Credits: 3.00

**POLS 138 - Const Law: Civil Liberties**

Investigation of the Supreme Court's interpretation of the First Amendment, rights of the accused, and the right to privacy. Prerequisite: POLS 021.

Credits: 3.00

**POLS 139 - Public Policy:Tools&Processes**

Examination of public policy process with particular focus on tools used to fashion public policy such as contracts, regulations, legislation, and presidential orders.

Pre/co-requisites: POLS 021.

Credits: 3.00

**POLS 141 - History of Political Thought**

Development of Western political thought from Plato to Aquinas. Prerequisite: POLS 041.

Credits: 3.00

**POLS 142 - History of Political Thought**

Modern political thought from Machiavelli to Nietzsche. Prerequisite: POLS 041.

Credits: 3.00

**POLS 143 - Philosophy of Law I**

(Same as Philosophy 142.) Analysis of the nature of law, the relation between law and morality, obligation to obey the law, the judicial decision, responsibility in law, legal ethics. Prerequisite: 41 or Philosophy 1 or 3 or 4.

Credits: 3.00

**POLS 144 - Philosophy of Law II**

(Same as Philosophy 143.) Problems of liberty, e.g. freedom of expression, privacy, paternalism; scope and limits of the criminal law; philosophy of punishment; selected problems in criminal justice. Prerequisite: 41 or Philosophy 1 or 3 or 4.

Credits: 3.00

**POLS 147 - 20thC Political Thought**

This course examines selected major works by the leading political thinkers of the twentieth century. Pre/co-requisites: POLS 41

Credits: 3.00

**POLS 149 - Intermediate Political Theory**

Intermediate courses on topics in political theory beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Prerequisite: POLS 041 or Instructor permission.

Credits: 3.00

**POLS 151 - American Foreign Policy**

Overview of the United States' involvement with the world. Focuses on the domestic political, institutional, and ideological influences on the formation of policy. Prerequisite: POLS 051.

Credits: 3.00

**POLS 157 - Internatl Politics Middle East**

Formation and operation of the state system in the 20th century Middle East. Emphasis on Great Power involvement, Arab-Israeli issues, regional conflict, transitional ideologies. Prerequisite: POLS 051.

Credits: 3.00

**POLS 161 - Political Geography**

(See Geography 177.) Prerequisite: 51 or 71 or Geography 1 or 73.)

Credits: 3.00

**POLS 168 - Middle East Politics**

State formation in the Middle East and problems it has occasioned. Review of modern history and examination of contemporary politics of several countries. Prerequisite: POLS 071.

Credits: 3.00

**POLS 171 - Western European Political Sys**

A comparative examination of the British, German, and French political systems. Prerequisite: POLS 071.

Credits: 3.00

**POLS 172 - Politic&Society in Russian Fed**

Examines the nature of politics and the development of post-Soviet social and economic institutions in Russia. Prerequisite: POLS 071.

Credits: 3.00

**POLS 173 - Canadian Political System**

Institutions, process, and problems of the Canadian polity. Prerequisite: POLS 071.

Credits: 3.00

**POLS 174 - Latin American Politics**

Comparative examination of selected Latin American political systems.

Prerequisite: POLS 071.

Credits: 3.00

**POLS 175 - Govt & Politics of China**

Institutions, processes, and problems of government of China. Prerequisite: POLS 071.

Credits: 3.00

**POLS 177 - Pol Systs of Tropical Africa**

Development of differing political systems in African countries located south of the Sahara and north of South Africa. Prerequisite: POLS 071, or one course in African Prerequisite: POLS 071, or one course in African Studies.

Credits: 3.00

**POLS 181 - Fund of Social Research**

(Same as Sociology 100.) Introduction to research methods in social science. Includes examination of research design, measurement, data collection, data analysis, and the presentation and theoretical interpretation of research findings.

Prerequisite: One core course.

Credits: 4.00

**POLS 191 - Internships**

Credits: 1.00 to 6.00

**POLS 192 - Internships**

Credits: 6.00

**POLS 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**POLS 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**POLS 197 - Readings & Research**

Credits: 1.00 to 6.00

**POLS 198 - Readings & Research**

Credits: 3.00

**POLS 222 - Constitutional Law II**

Selected topics in constitutional law. Prerequisite: POLS 122.

Credits: 3.00

**POLS 225 - Intergovernmental Relations**

Problems of the federal system. National-state-local cooperative administration of selected public functions. Prerequisite: POLS 021, three hours at the 100-level.

Credits: 3.00

**POLS 226 - Topics on the Presidency**

Further study of the executive branch and its operations. Selected topics, e.g. presidential decision making. White House staffing and operations, congressional-executive relations. Prerequisite: POLS 124.

Credits: 3.00

**POLS 228 - Congress & Foreign Policy**

Congress's role in foreign policy making, emphasizing congressional action in the post-Vietnam period. Prerequisite: POLS 021, three hours at the 100-level.

Credits: 3.00

**POLS 229 - Seminar in American Politics**

Credits: 3.00

**POLS 232 - Comparative State Politics**

Politics, policy, and institutions of state governments of the U.S.; techniques for comparative analysis of these aspects of politics. Prerequisite: POLS 021, three hours at the 100-level.

Credits: 3.00

**POLS 234 - Topics in Public Opinion**

This course will examine the quality and sophistication of public attitudes, and the motivations that underlie political participation and electoral choice. Pre/co-requisite: POLS 021; three hours at 100 level; Junior/Senior level only.

Credits: 3.00

**POLS 241 - Justice & Equality**

(Same as Philosophy 242.) Examination of contemporary normative theories of distributive justice and equality. Prerequisites: 41, or Philosophy 1 or 3 or 4, three

hours at 100 level.

Credits: 3.00

**POLS 242 - American Political Thought**

American political thought from the colonial period to recent times. Prerequisites: POLS 041, three hours at the 100-level. Background in American history recommended.

Credits: 3.00

**POLS 243 - Democratic Theory**

The nature of democracy. Both contemporary debates within democratic theory and the classical sources of democratic theory are examined. Prerequisite: POLS 041; three hours at 100 level.

Credits: 3.00

**POLS 249 - Seminar in Political Theory**

Credits: 3.00

**POLS 251 - Foreign Pol Newly Indep States**

Examines the development of foreign relations of post- Soviet states, with a special focus on Russia and the post-Communist era. Prerequisite: POLS 051 or three hours at 100 level.

Credits: 3.00

**POLS 257 - Pol of European Integration**

Survey of the European Union including historical development, public opinion, governmental institutions, internal policies, external relations, and future prospects. Prerequisite: POLS 051 or POLS 071 plus three hours at the 100 level or appropriate International Studies background.

Credits: 3.00

**POLS 258 - Causes of War**

Examination of various theories explaining the outbreak of war, with applications to historical cases. Prerequisite: POLS 051; three hours at the 150 level.

Credits: 3.00

**POLS 259 - Sem in International Relations**

Credits: 3.00

**POLS 263 - Third World Foreign Policy**

The particular security and political economic challenges facing states in the process of nation-building in Latin America, Africa, Middle East, South Asia, Southeast Asia. Prerequisite: POLS 051; three hours at the 150 level.

Credits: 3.00

**POLS 264 - US-China Relations**

Examination of the historical context and various causes of the recurring tensions and unresolved issues in U.S.-China relations since 1945. Prerequisite: POLS 051; one 100-level course.

Credits: 3.00

**POLS 265 - East Asian Political Economy**

Examination of the historical, political, economic, and international factors for the rise of East Asia since the Second World War. Prerequisite: POLS 051 or POLS 071, one 100-level course.

Credits: 3.00

**POLS 276 - British Politics**

Topics include the role of the citizenry; the character of political and governmental institutions; and policy making in particular fields. Northern Ireland is also covered. Prerequisite: POLS 071 plus three hours at the 100 level or appropriate International Studies background.

Credits: 3.00

**POLS 277 - Comparative Ethno-Nationalism**

Ethnicity and nationalism in Europe, Asia, and Africa. Political, historical, social, and economic factors are examined comparatively. Prerequisite: POLS 071; three Prerequisites: POLS 071, three hours at the 100-level.

Credits: 3.00

**POLS 279 - Sem in Comparative Politics**

Credits: 3.00

**POLS 293 - Senior Honors Seminar I**

Examination of major contemporary research topics in political science. Prerequisite: Admission by invitation only. (Not offered for graduate credit.)

Credits: 3.00

**POLS 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**POLS 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 4.00

**POLS 297 - Advanced Readings & Research**

For advanced undergraduate and graduate students.

Credits: 3.00

**POLS 298 - Advanced Readings & Research**

For advanced undergraduate and graduate students.

Credits: 3.00

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## Courses in Professional Nursing (PRNU)

### PRNU 050 - First Year Nursing Seminar

This course begins the socialization process of undergraduate nursing students as members of a profession and will introduce the historical foundations, evolution, and contemporary characteristics of nursing.

Credits: 1.00

### PRNU 060 - Trans to Cntmp Prof Nursing

This course bridges students into the RN-BS-MS program. An emphasis is placed on nursing theory, holistic nursing practice, contemporary issues in nursing and ethical decision-making. Prerequisite: Admission to program (NAT majors).

Credits: 3.00

### PRNU 110 - Art & Science of Nursing

Ways of knowing that contribute to the professional nurse's understanding of the human experience of health are explored within the context of environment and culture. Prerequisites: Sociology, Psychology 1, English 1; Pre/corequisite: PRNU 50; Recommended: One of the following: ENVS 1, 2 or 7; ENSC 1 or 130; NR 2 or NR 107/NH 107.

Credits: 3.00

### PRNU 111 - Research in Nursing

Provides an introduction to nursing research and its relationship to nursing theory and practice. Knowledge and skills essential for the critique and utilization of nursing research are presented. Prerequisites: PRNU 110, STAT 111 or 141.

Credits: 3.00

### PRNU 113 - Assess of Hlth:Indiv&Fam/Comm

Through classroom and practicum, students learn to holistically assess and differentiate healthy from at-risk findings of clients in a variety of settings.

Prerequisites: ANPS 19, NFS 43, HDF5 5; Pre/Corequisites:PRNU 110, 111, ANPS 20, MMG 65 or BMT 54.

Credits: 5.00

**PRNU 127 - Hlth Promotion Across Lifespan**

This course focuses on health promotion and disease prevention across the lifespan. Varied practicum experiences provide students the opportunity to assess, plan, implement and evaluate care. Prerequisites:PRNU 050, 110, 111, 113; Pre/corequisite: one of the following ENV5 1,2,or 7, ENSC 1 or 130; NR 2 or NR 107/NHS 107; Recommended: PRNU 128, NURS 120.

Credits: 4.50

**PRNU 128 - Nurs Implications Drug Therapy**

Examination and application of knowledge of pharmacotherapeutic principles to nursing practice. Prerequisites:PRNU 50,110,111,113, CHEM 26, ANPS 20; Pre/corequisite: NURS 120.

Credits: 4.00

**PRNU 129 - Fam Care/Chldbrg Women&Newborn**

This course focuses on the human experiences of child- bearing. Students will have opportunities to care for childbearing women, neonates and their families in a variety of settings. Prerequisites: PRNU 50,110,111,113; Pre/corequisites: PRNU 127,128,NURS 120.

Credits: 4.00

**PRNU 130 - Prof Nursing&HealthCare System**

This course focuses on the historic and contemporary role of the professional nurse within the health care system. The organization and financing of health care is examined from multiple perspectives. Prerequisite: PRNU 050, PRNU 110, PRNU 111.

Credits: 2.00

**PRNU 131 - Exp of Alterations in Health I**

Focus on the human experience of alterations in health for individuals and their families. Content addresses individual and family responses to disease processes from a holistic perspective. Prerequisites: 127, 128, NURS 120.

Credits: 3.00

**PRNU 132 - Caring for Child W/Alter Hlth**

Focus on children experiencing alterations in health. Through classroom and practicum students learn to holistically care for children experiencing alterations within the context of family, in a variety of settings. Prerequisites: PRNU 127, 128, 129, 130, NURS 120; Pre/corequisite: PRNU 131.

Credits: 5.00

**PRNU 134 - Care Adult/Elders W/Alt Hlth**

Focus on adults and elders experiencing alterations in health. Through classroom and practicum students learn to holistically care for adults and elders experiencing alterations within the context of family, in a variety of settings. Prerequisites: NURS 120, PRNU 127, 128, 129, 130; Pre/corequisite: PRNU 131.

Credits: 6.00

### **PRNU 196 - Special Topics**

Refer to course schedule for specific title. Prerequisite: Majors only; Senior standing.

Credits: 3.00

### **PRNU 197 - Independent Study**

An independent study is an educational experience taken for credit that occurs separate from a group class. The student develops a plan specific to their learning needs and interests and works under the guidance of a faculty member to achieve the predetermined objectives. Prerequisite: Agreement from a faculty sponsor and approval by the Baccalaureate Education Committee.

Credits: 3.00

### **PRNU 231 - Experience:Alteration:Hlth II**

This course focuses on individual and family responses to alterations in health. A holistic and lifespan approach will be used in examining the nursing care of these clients. Prerequisites: NURS 120, PRNU 127, 128; Pre/corequisite: PRNU 130.

Credits: 3.00

### **PRNU 234 - Care Adlts/Elders w/Alt HlthII**

The second course of a two-course sequence focusing on adults and elders experiencing alterations in health. Through classroom and practicum students learn to holistically care for adults and elders experiencing alterations within the context of family. Prerequisites: PRNU 131, 134; Pre/corequisites: PRNU 132, 231, 235.

Credits: 6.00

### **PRNU 235 - Care Indv w/Alt in Mental Hlth**

Focus on individuals experiencing alterations in mental health. Through classroom and practicum students learn to holistically care for individuals experiencing alterations in mental health in a variety of settings. Prerequisites: PSYC 152, NURS 120; PRNU 127, 128, 129, 130; Pre/corequisite: PRNU 131.

Credits: 5.00

### **PRNU 238 - Caring For Select Populations**

This course provides students with the opportunity to focus on a clinical specialty area of their interest. Prerequisite: PRNU 129, PRNU 132 for OB/ped specialty; PRNU 234, PRNU 235 for Adult Health/psych/ICU/ED/OR/PACU specialty.

Credits: 1.00 to 3.00

**PRNU 240 - Contemp Iss&Ldrshp Prof Nursng**

Current issues and leadership in the nursing profession. Prominent issues in nursing are explored from a historical, political, and futuristic perspective. Strategies dealing with issues are formulated using theories of change and leadership. Prerequisites: PRNU 50,110,111,113; NURS 120; PRNU 127,128,129,130,131,132,134,234,235; Corequisites: PRNU 241, 244.  
Credits: 6.00

**PRNU 241 - Cmty/Public Health Nursing**

This course focuses on population health and community partnerships. Students will provide care to a defined community within their clinical groups and will work in collaboration with professionals in a variety of settings. Prerequisites: PRNU 50,110,111,113; NURS 120; PRNU 127,128,129,130,131,132,134,231,234,235; Corequisites: PRNU 240, 244.  
Credits: 6.00

**PRNU 244 - Senior Practicum**

Provides students with the opportunity to focus on a clinical area of interest. Settings include health clinics, homes, hospitals, and long term care facilities. Prerequisite: PRNU 050, PRNU 110, PRNU 111, PRNU 113, NURS 120, PRNU 127, PRNU 128, PRNU 129, PRNU 130, PRNU 131, PRNU 132, PRNU 134, PRNU 234, PRNU 235. Co-requisite: PRNU 240, PRNU 241.  
Credits: 3.00

**PRNU 263 - Professional Nursing Practice**

Course will focus on health promotion for individuals, families, and groups recognized as marginalized within our society. Clinical settings used will focus on meeting the needs of people in marginalized groups. Prerequisites: PRNU 60, 111, 113  
Credits: 5.00



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## Courses in Psychology (PSYC)

### PSYC 001 - General Psychology

Introduction to the entire field, emphasizing the behavior of the normal adult human being.  
Credits: 3.00

### PSYC 015 - Improv Memory, Motiv & Cog Skills

Theory and research on learning and memory, motivation, and cognitive skills. Emphasis on the application of principles to everyday life. Prerequisite: PSYC 001 or Instructor permission.  
Credits: 3.00

### PSYC 095 - Special Topics

Credits: 3.00

### PSYC 096 - Special Topics

Credits: 3.00

### PSYC 104 - Learning, Cognition & Behavior

Behavioral and cognitive principles underlying learning, memory, and action inside and outside the laboratory. Includes conditioning, motivation, biological constraints, and mechanism of remembering and forgetting. Pre/co-requisite: PSYC 001.  
Credits: 3.00

### PSYC 109 - Psychology Research Methods I

Basic course in principles of research methodology, including design, statistical procedures, and reporting. Prepares students to understand and evaluate psychological research in a variety of areas of psychology. Prerequisite: PSYC 001.

Credits: 4.00

**PSYC 110 - Psychology Research Methods II**

More advanced methodology course for majors in psychology. Prepares students to conduct and report research in psychology, with special attention to experimental procedures in learning and cognition. Laboratory experiences.

Prerequisite: PSYC 109.

Credits: 4.00

**PSYC 111 - Psychology of Decision Making**

Introduction to the study of individual and group decisions. Focus on "how," "how best," and "how reasonably" to decide. Attention to tricks and traps in the process.

Prerequisite: PSYC 001. Summer only.

Credits: 3.00

**PSYC 119 - History of Psychology**

Review of major theoretical and empirical developments in psychology, including schools of psychology that have influenced contemporary models of psychology.

Prerequisite: PSYC 001; Junior or Senior standing.

Credits: 3.00

**PSYC 121 - Biopsychology**

Biological bases of behavior: classical and contemporary issues, including introduction to nervous system, behavioral effects of drugs, chemical bases of behavioral disorders. Prerequisite: PSYC 001 or BIOL 001.

Credits: 3.00

**PSYC 130 - Social Psychology**

An introduction to concepts and methods used to study the behavior of individuals in various social situations. Prerequisite: PSYC 001.

Credits: 3.00

**PSYC 152 - Abnormal Psychology**

Describing and defining abnormal behavior; models of etiology; research evidence for biological and social models; methods of intervention and prevention.

Prerequisite: PSYC 001.

Credits: 3.00

**PSYC 161 - Developmental Psyc:Childhood**

Survey of research and theories on child development from conception to adolescence emphasizing experimental analyses of early social and cognitive development. Prerequisite: PSYC 001.

Credits: 3.00

**PSYC 163 - Psychology Mass Communication**

Survey of theory and research concerning mass media effects in children's

socialization, information diffusion, and in shaping values, behaviors regarding health, politics, consumer choices, and environment. Prerequisite: PSYC 001 or Instructor permission.

Credits: 3.00

**PSYC 195 - Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**PSYC 196 - Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 5.00

**PSYC 197 - Independent Study**

Individual research under staff direction. Prerequisite: Department permission.

Credits: 3.00

**PSYC 198 - Independent Study**

Individual research under staff direction. Prerequisite: Department permission.

Credits: 3.00

**PSYC 205 - Learning**

Analysis of theory and research on the basic learning process and behavior.

Prerequisite: PSYC 109.

Credits: 3.00

**PSYC 206 - Motivation**

Theory and research on motives, including hunger, fear, sex drive, and addiction, their influence on behavior, relationship to other psychological processes, and biological correlates. Prerequisite: PSYC 109.

Credits: 3.00

**PSYC 207 - Thinking**

Survey of cognitive psychology, examining theory and research on perception, memory, language, cognition, and their interactions. Prerequisites: 109.

Credits: 3.00

**PSYC 208 - Cognition & Language**

(See Communication Sciences 208.)

Credits: 3.00

**PSYC 215 - Cognition & Aging**

(See Communication Sciences 215.)

Credits: 3.00

**PSYC 220 - Animal Behavior**

Behavior of animals under controlled experimental conditions and in their natural environments. Consideration of evolution, development, function, and control of behavior. Prerequisite: 109 or Biology 102.

Credits: 3.00

**PSYC 221 - Physiological Psychology I**

Structure and function of mammalian nervous system, emphasizing neurological correlates of sensory experience and perception. Individual laboratory experience.

Prerequisite: 109.

Credits: 4.00

**PSYC 222 - Sel Topics Behavioral Neurosci**

Selected topics examining the role of the central nervous system in determining behavior, including innate behaviors, arousal, motivation, learning, and memory.

Prerequisite: PSYC 121 or PSYC 221.

Credits: 3.00

**PSYC 223 - Psychopharmacology**

Effects of drugs (both medical and recreation) on behavior. Topics such as drug effects on learning, memory, motivation, perception, emotions, and aggression.

Prerequisites: 109, 121 or 222.

Credits: 3.00

**PSYC 230 - Advanced Social Psychology**

Advanced survey of current research on the behavior of individuals in social situations. Prerequisite: PSYC 109 or PSYC 130.

Credits: 3.00

**PSYC 231 - Psychology of Women**

Psychological theories about women and research on women's roles. Biological, personality, cognitive, and developmental factors considered. Prerequisite: One Psychology course at the 100 level.

Credits: 3.00

**PSYC 233 - Experience & Creativity**

Explores psychological processes for developing creative thinking and for enhancing the quality of conscious experience. Emphasizes personal growth as well as theoretical understanding. Prerequisite: Advanced background in at least one relevant field, such as Psychology, Environmental Studies, Studio Art, or education.

Credits: 3.00

**PSYC 235 - Psychology of Art**

Exploration of key psychological processes involved in creating and experiencing



all forms of art; participants also conduct a research project in an area of interest.

Prerequisite: Strong background in Psychology and/or Art. UG only.

Credits: 3.00

**PSYC 236 - Theories of Human Comm**

Study of the role of perception, human information processing, language, nonverbal codes, meaning, cognition, and interpersonal and sociocultural context in human communication process. Prerequisite: PSYC 109 or PSYC 130.

Credits: 3.00

**PSYC 237 - Cross-Cultural Communication**

Study of cultural factors, cognitive processes, communication patterns, and problems in cross-cultural communication; role of communication in development and social change in third world countries. Prerequisite: PSYC 109 or PSYC 130 or PSYC 230; other advanced background in education or a social science.

Credits: 3.00

**PSYC 239 - Adv Soc Psyc Appl&Facilitation**

Explores psychological foundations of approach used in 130 for applying academic content. Involves research and readings beyond work for 139.

Prerequisite: 139, or 12 hours of psychology and department permission. Intended for 130 group facilitators with advanced psychology background. (Not offered for graduate credit.)

Credits: 3.00

**PSYC 240 - Organizational Psychology**

Study of the psychological impact of macro and micro features of organizations upon leadership, decision making, workforce diversity, group process, conflict, and organizational performances. Prerequisite: PSYC 109, or Instructor permission.

Credits: 3.00

**PSYC 241 - Org Psyc:Glob/Cultri/Loc Force**

Study of global, cultural, and local dynamics upon organizational culture, leadership, workforce diversity, ethics and justice at work, and conflict resolution. Conduct applied organizational cultural analysis. Prerequisite: PSYC 109 or Instructor permission.

Credits: 3.00

**PSYC 250 - Intro to Clinical Psychology**

Study of basic principles of interviewing, testing, assessment from life situations, and report writing. Examination of the most common approaches to psychotherapy. Prerequisite: PSYC 109, PSYC 152.

Credits: 3.00

**PSYC 251 - Behav Disorders of Childhood**

An overview of theory, research, and practice in developmental psychopathology

from infancy through adolescence. The major disorders of social and emotional development reviewed. Prerequisite: PSYC 109 or PSYC 161. PSYC 109 may be taken concurrently.

Credits: 3.00

**PSYC 253 - Advanced Behavior Modification**

Application of techniques for the modification of human behavior in a variety of educational and social situations involving the collection and analysis of behavioral data. Prerequisite: PSYC 109, PSYC 152.

Credits: 3.00

**PSYC 254 - Prim Prevent&Mental Hlth Promo**

An examination of empirical approaches to prevention of mental and emotional disorders; history of public health methods; sources of support and opposition to prevention efforts. Prerequisites: 109, 152. UG only.

Credits: 3.00

**PSYC 255 - Intro to Health Psychology**

Psychology of the cause, treatment, and prevention of physical illness and disability. Topics include: stress, health behavior, medical compliance, patient-provider relationships, coping with illness. Prerequisite: 109 or advanced standing in Allied Health Sciences. UG only.

Credits: 3.00

**PSYC 261 - Cognitive Development**

Examination of research and theory concerning developmental changes in the human processing of information from infancy to adulthood centered around the work of Piaget. Prerequisite: PSYC 109 or PSYC 161. PSYC 109 may be taken concurrently.

Credits: 3.00

**PSYC 262 - Social Development**

Examination of theory and research concerning interpersonal development in humans from infancy through adulthood. Relationships between language, cognition, and social development emphasized. Prerequisite: PSYC 109 or PSYC 161. 109 may be taken concurrently.

Credits: 3.00

**PSYC 263 - Disabilities of Learning & Dev**

Seminar in etiology, treatments, prevention of developmental and learning disabilities within framework of current service and educational practices. Effectiveness, ethical, legal, psychological issues examined. Prerequisite: One 100-level Psychology course or advanced standing in Psychology, Education, or Physical Therapy.

Credits: 3.00

**PSYC 265 - Infant Development**

Biological, cognitive, and social aspects of infant development in context; opportunities to evaluate and design research and apply knowledge to parenting, prevention, and social policy. Prerequisite: PSYC 109, PSYC 161 which may be taken concurrently or comparable.

Credits: 3.00

**PSYC 266 - Communication & Children**

Study of the role of communication, especially television, in cognitive and social development from preschool to adolescence. Relationship between television violence and abnormal behavior examined. Prerequisite: PSYC 109 or PSYC 161 or PSYC 163.

Credits: 3.00

**PSYC 268 - Psychology Adult Dev & Aging**

Psychological development in the final third of the life span emphasizing theory and research concerning social, cognitive, perceptual, and mental health transitions and support interventions. Prerequisites: 1, and Sociology/Nursing/Early Childhood and Human Dev. 20 or Early Childhood and Human Dev. 195/295 or permission.

Credits: 3.00

**PSYC 269 - Cross-Cultural Psyc:Clin Persp**

Introduction to issues posed for psychologists in their work with ALANA (African, Latino/a, Native and Asian American) and international populations. Critical appraisal of readings, research and case studies. Prerequisites: PSYC 1,109. (Same as ALANA 269).

Credits: 3.00

**PSYC 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**PSYC 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**PSYC 301 - Faculty Seminar**

Introduction to specialized areas of psychology.

Credits: 0.00

**PSYC 302 - Faculty Seminar**

Introduction to specialized areas of psychology.

Credits: 0.00

**PSYC 305 - Seminar in Learning Theory**

Credits: 3.00

**PSYC 340 - Adv Statistical Methods I**

Statistical methods for evaluating psychological data. Emphasizes exploring data with respect to research hypotheses. Critical study of hypothesis tests on means, chi-square, and correlational techniques.

Credits: 3.00

**PSYC 341 - Adv Statistical Methods II**

Continuation of PSYC 340. In-depth study of the analysis of variance and multiple regression. Further study of analysis and interpretation of data from the behavioral sciences. Prerequisite: PSYC 340.

Credits: 3.00

**PSYC 349 - Seminar in Psyc Research Meth**

For advanced psychology Graduate students. Topics may include but are not limited to: factor analysis, discriminant function analysis, multivariate analysis of variance, advanced experimental design, computer application in data collection and analysis. Prerequisite: PSYC 341; or Instructor permission.

Credits: 3.00

**PSYC 350 - Family Therapy**

An exploration of current theories and techniques in family therapy, through readings and discussion, as well as observation of taped and live family therapy sessions. Prerequisite: Graduate standing in Clinical Psychology; or Instructor Permission.

Credits: 3.00

**PSYC 351 - Behavior Therapy: Adults**

Review of literature relating to theory, practice, research. Emphasis on the evaluation of a variety of procedures applied to behavior disorders in adults. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 352 - Behavior Therapy: Children**

Review of literature relating to theory, practice, research. Emphasis on the evaluation of a variety of procedures applied to behavior disorders in children. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 353 - Clinical Human Neuropsychology**

Clinical seminar on effects on human behavior of neocortical dysfunction. Review of theoretical, clinical approaches to brain function, emphasis on recent developments in diagnostic techniques, ensuing theoretical developments. Prerequisite: PSYC 221, PSYC 222, or equivalent.

Credits: 3.00

**PSYC 354 - Psychopathology I**

An advanced course dealing with models of classification, diagnosis, epidemiology of behavior disorders in children. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 355 - Psychopathology II**

An advanced course dealing with models of classification, diagnosis, epidemiology of behavior disorders in adults. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 357 - Cross Culture Clin Interv&Rsch**

Issues for psychologists regarding clinical intervention and research with Black, Latino/a, Native and Asian Americans and international populations of color with an eye towards cultural competence. Prerequisites: Graduate standing.

Credits: 3.00

**PSYC 359 - Interpersonal Psychotherapy**

An examination of psychotherapy as an interpersonal process. Resistance, transference, and counter-transference examined as interpersonal interactions and related to interpersonal personality theory. Prerequisites: Advanced Graduate standing; Instructor permission.

Credits: 3.00

**PSYC 361 - Advanced Personality Theory**

Personality development from a psychoanalytic, humanistic, trait, and sociocultural perspective. Also, methods of personality measurement, such as scale construction and the analysis of fantasy and projective material. Prerequisite: Permission.

Credits: 3.00

**PSYC 362 - Community Clinical Psychology**

Seminar examining community intervention strategies for psychological problems and health risk behaviors. Topics: history of community psychology, discussion of intervention programs, consultation issues, research. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 363 - Advanced Primary Prevention**

Review of research literature on prevention of psychopathology and promotion of competence; development of model prevention programs; evaluation, ethical issues, and political issues. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 364 - Professional Affairs & Ethics**

The origins of professions and of psychology in particular. Accreditation, laws

affecting psychology, organization of the profession, licensing certification, and the code of ethics for psychology. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 366 - Advanced Developmental Psyc**

Critical Analysis of selected topics in developmental psychology. Research, theory, applied, professional issues including, for example, moral development, infancy, early conceptual development, professional writing. Prerequisite: Graduate standing in Psychology. Repeatable course.

Credits: 3.00

**PSYC 369 - Health Psychology**

Psychological aspects of the etiology, treatment, prevention of physical illness. Topics include: stress and disease, compliance, health care systems, coping with illness, positive health behavior. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 370 - Adult Psychological Assessment**

Intelligence, neuropsychology, interviewing, psychodiagnosis, objective and projective personality methods, behavioral assessment, report writing. Supervised assessment practicum (100 hours) in university and in-patient mental health settings. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 371 - Child & Adolescent Psyc Assess**

Interviewing, intelligence testing, behavioral assessment, social cognition, family environments, specific disorders of childhood. Supervised assessment practicum (100 hours) in in-patient and out-patient mental health settings and schools. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 372 - Psychological Intervention I**

Introduction to psychotherapy, theories, and strategies. Skill building in case formulation, therapeutic goals, and effective intervention techniques. Supervised therapy practicum (100 hours) in university setting. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 373 - Psychological Intervention II**

Theories and strategies of psychological intervention. Supervised service delivery (150 hours) at University Counseling and Testing Center including individual and group therapy and crisis intervention. Prerequisite: Instructor Permission.

Credits: 0.00

**PSYC 374 - Advanced Clinical Practicum**

Year-long, 20 hours/week supervised service delivery (1,000 hours) involving

psychological intervention and consultation. Training takes place in a variety of mental health agencies. Prerequisites: Second-year student or above (or equivalent) in Ph.D. program in Clinical Psychology and permission. (May be taken more than once.)

Credits: 1.00

**PSYC 375 - Internship in Clinical Psyc**

Credits: 0.00

**PSYC 380 - Contemporary Topics**

Selected topics in depth, emphasis on critical analysis of original literature. Recent topics: anxiety, behavioral pharmacology, biological bases of memory, depression, organizational behavior, psychotherapy research, primate behavior, skilled performance.

Credits: 3.00

**PSYC 381 - Clinical Research Seminar**

Year-long seminar on methods and design in clinical research. Oral and written presentation of a research proposal and results. Required twice for clinical students. Prerequisite: Instructor Permission.

Credits: 3.00

**PSYC 382 - Adv Professional/Research Sem**

Discussion of current research and student research presentation in areas of concentration ("clusters"). Prerequisite: Graduate standing in General/Experimental Program.

Credits: 1.00

**PSYC 385 - Advanced Readings & Research**

Readings, with conferences, to provide graduate students with backgrounds and specialized knowledge relating to an area in which an appropriate course is not offered.

Credits: 3.00

**PSYC 391 - Master's Thesis Rsch**

Credits: 1.00 to 18.00

**PSYC 395 - Special Topics**

Credits: 3.00

**PSYC 491 - Doctoral Dissertation Research**

Credits: 1.00 to 18.00



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### Courses in Public Administration (PA)

**PA 206 - Intro Cont Public Affairs**

Contemporary policy issues including government and the economy, the role of leadership, ethical and moral issues in public policy, and other contemporary issues impacting society. Prerequisites: Economics 11, 12, or equivalent recommended.

Credits: 3.00

**PA 295 - Special Topics**

Current issues and new developments in public policy and public administration. Prerequisite: Permission.

Credits: 3.00

**PA 301 - Fundamentals of Public Admin**

Analysis of major elements of management in the public sector (organization, personnel, budgeting) with special attention to problems arising from political imperatives generated by a democratic society.

Credits: 3.00

**PA 302 - Public Sector Organizations**

Examination of basic classical and contemporary theory, research on human relations, internal structures, environments, types, general properties of complex organizations and bureaucracies. (Summer cross-listing: Psychology 240).

Credits: 3.00

**PA 303 - Research Methods**

Data analyses and communication of statistical information for management decision making. Methods of modeling relationships, comparing strategies, and assessing probabilities. Instruction in computer use. Additional lab required.

Credits: 3.00



**PA 305 - Public Budgeting&Pub Finance**

A focus on the budget as the primary policy and planning document in public organizations.

Credits: 3.00

**PA 306 - Introduction to Public Policy**

Study of stages in the policy process; development of public policy in the federal system; and policy analysis and evaluation at each stage in the policy process.

Credits: 3.00

**PA 307 - Administrative Ethics**

Administrative behavior with a focus on ethical dilemmas that arise in the bureaucracy. An examination of a number of moral issues and ways to resolve them.

Credits: 3.00

**PA 308 - Decision Making Models**

Credits: 3.00

**PA 311 - Policy Analysis&Program Eval**

A seminar providing hands-on knowledge in policy analysis and program evaluation using case studies of current analysis projects and problems. Specific techniques include planning, survey administration, forecasting, cost benefit analysis, and impact assessment.

Credits: 3.00

**PA 312 - Mgmt in Hlth Services&Med Care**

Addresses major issues and challenges faced by health services managers relating to established and evolving social, economic, and professional policies in a context of practical problem assessment and appropriate resolution.

Credits: 3.00

**PA 313 - Public Policy Implementation**

A seminar considering aspects of the public policy implementation process from initiation to completion and evaluation with regards to system design, policy goals, communication, compliance, and political environment.

Credits: 3.00

**PA 314 - Administrative Law**

Examines legal foundations of public administration focusing on legal issues of most importance to present or future administrators.

Credits: 3.00

**PA 315 - Hlth Srvc & Med Care in US**

Defines the milieu of issues and challenges faced by managers in the health services setting.

Credits: 3.00

**PA 316 - Effective Mgmt Techniques**

Concentration on leadership, the role of managers, and essential components of well-managed organizations in the public, nonprofit, and private sector.

Credits: 3.00

**PA 317 - Systems Anly & Strategic Mgmt**

Students will be introduced to systems thinking and network dynamics with a particular focus on managing across organizational and sectoral boundaries, including public-private partnerships, intergovernmental arrangements, and strategic alliances. Tools to undertake strategic analysis and planning will be explored.

Credits: 3.00

**PA 318 - Admin Theory & Practice**

Extensive examination of literature pertaining to the practice and theory of public administration. Explores public/private partnerships, intergovernmental management, ethics, and administrators as agents for organizational change.

Credits: 3.00

**PA 319 - State Administration**

Elements of public management at the state level i.e. the state/federal relationship regarding control; management within the force field of local conflict and cooperation; and management within the context of inter-agency conflict and cooperation. Cross-listed with: POLS 224.

Credits: 3.00

**PA 321 - Negotiation & Mediation**

Explores the principles of today's negotiations and mediations through readings, heavy emphasis on practical exercises between students, and case analyses of actual negotiations. Prerequisite: Graduate standing.

Credits: 3.00

**PA 323 - Non-Profit Administration**

Course reviews the history of, and managerial challenges inherent to, the non-profit sector in the United States and explores sector's relationship to the governmental and business sectors.

Credits: 3.00

**PA 325 - Health Care Policy**

This course addresses policy issues affecting the structure, performance and change in the U.S. health care system, with a specific focus on the role of health care managers. Pre/co-requisite: CDAE 102, CDAE 124, or Instructor permission.

Credits: 3.00

**PA 334 - Organizational Behav&Cultures**

Credits: 3.00

**PA 380 - Internship**

Supervised administrative experience culminating in a written report.

Credits: 3.00

**PA 391 - Master's Thesis Research**

Thesis topic must be approved by faculty advisor.

Credits: 6.00

**PA 395 - Special Topics**

For advanced students within areas of expertise of the faculty. Varied course offerings. Contemporary topics. Instructor Permission.

Credits: 6.00

**PA 397 - Readings & Research**

Readings, with conferences, term paper, to provide graduate students with specialized knowledge in an area in which an appropriate course is not offered.

Credits: 6.00

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## Courses in Public Serv Tech Gen (PSTG)

### **PSTG 004 - Chem Lab**

Credits: 0.00

### **PSTG 299 - Visiting Grad**

Credits: 0.00

### **PSTG 300 - Nurse Midwifery Grad Program**

Credits: 6.00



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## Courses in Radiation Therapy (RADT)

### **RADT 144 - Seminar:Patient Care Issues**

Topics will include new treatment modalities, outreach programs, coping with disease, etc. RADT majors only. Prerequisite: Junior standing in Radiation Therapy. S/U grading.

Credits: 3.00

### **RADT 152 - Prin of Radiation Therapy**

Introduction to the practice and theory of radiation therapy through lectures and discussions. Pre/co-requisites: MLRS 140.

Credits: 3.00

### **RADT 173 - Intro to Clinical Practice**

Introduction to the clinical environment through activities which include patient care issues, treatment unit operations and manipulations and direct patient case. Includes a clinical practicum. Pre-requisite: RADT 152.

Credits: 3.00

### **RADT 174 - Clinical Practicum**

Students participate and observe in the Fletcher Allen Health Care Radiation Therapy Department. RADT majors only. Prerequisite: RADT 173. Spring.

Credits: 2.00

### **RADT 175 - Medical Imaging**

Introduction to the radiographic anatomy and the various imaging modalities presently used to include diagnostic imaging, computed tomography (CT), magnetic resonance imaging (MRI), and nuclear medicine. Pre/co-requisites: ANPS 19, concurrent with ANPS 20, BMT 4. Cross-listed with NMT 175.

Credits: 3.00

**RADT 176 - Clinical Radiation Oncology**

The various types of neoplasms, methods of diagnosis of treatment, and elementary pathology are presented. RADT majors only. Prerequisites: Anatomy and Physiology 19-20, concurrent enrollment in RADT 174. Spring.

Credits: 3.00

**RADT 223 - Clin Pract: Radiation Therapy**

A continuation of RADT 174 emphasizing increasing clinical capabilities. RADT majors only. Prerequisite: 174. Fall.

Credits: 3.00

**RADT 274 - Clin Intern:Radiation Therapy**

Students are assigned to approved clinical education sites to observe and increase their participation in the clinical environment. Evaluations based on defined clinical objectives and competencies to be completed by the clinical and University faculty. RADT majors only. Prerequisite: Successful completion of all previous required major courses and concurrent enrollment in RADT 280. Spring.

Credits: 14.00

**RADT 275 - Dosimetry**

Treatment plan verification using three-dimensional computer models, simulation data, and knowledge of treatment unit capabilities. RADT majors only.

Prerequisites: RADT Senior Standing.

Credits: 3.00

**RADT 277 - Techniques Radiation Therapy**

Instructs students in the theory and clinical application of radiotherapeutic techniques. RADT majors only. Prerequisites: Concurrent enrollment in 275 and 223. Fall.

Credits: 4.00

**RADT 280 - Qual Assurance&Treatment Plan**

The integration of clinical oncology, radiobiology, dosimetry, and treatment planning, and how they affect patient outcomes. RADT majors only. Spring.

Credits: 3.00



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## Courses in Recreation Management (RM)

### RM 001 - Intro to Recreation Management

Introduction to the broad field of outdoor recreation and tourism, including history, philosophy, current issues, career opportunities, and the Recreation Management Program.

Credits: 1.00

### RM 030 - US National Parks

The natural beauty and unique phenomena of our National Parks are emphasized. Historical development and current problems are cited. Credit not granted for both 30 and Natural Resources 2.

Credits: 3.00

### RM 050 - Tourism Planning

Examination of tourism including its economic, environmental, and social effects. Emphasis on planning to maintain the integrity of tourist regions.

Credits: 3.00

### RM 138 - Park & Recreation Design

Recreation design methodology applied to the design of public and private recreational facilities.

Credits: 4.00

### RM 152 - Forest Resource Values

Cross-listed with Forestry 152.

Credits: 3.00

### RM 153 - Recreation Admin & Operations

Administration and operation of outdoor recreation agencies and businesses. Special emphasis on recreation administrative structures, personnel management,

and maintenance of parks and outdoor recreation areas. Prerequisites: Junior or senior standing.

Credits: 3.00

**RM 157 - Ski Area Management**

An analysis of current management problems affecting private ski areas in Vermont and the Northeast. Prerequisites: Junior or senior standing. Alternate years.

Credits: 4.00

**RM 158 - Resort Mgmt & Marketing**

Study of the management of year-round resort facilities. Emphasis on resort marketing, internal support functions, and associated recreational facilities.

Prerequisites: Junior or senior standing.

Credits: 3.00

**RM 160 - Parks & People I**

A Living/Learning Center Program. Consideration of impacts of recreation on the environment. Discussion of the operation of the Vermont State Park System.

Credit for 160 will not be granted until 161 has been successfully completed.

Credits: 1.00

**RM 161 - Parks & People II**

A Living/Learning Center Program. Consideration of impacts of recreation on the environment. Discussion of the operation of the Vermont State Park System.

Credit for 160 will not be granted until 161 has been successfully completed.

Credits: 1.50

**RM 188 - Special Topics**

Independent study. Prerequisites: Junior standing, permission.

Credits: 3.00

**RM 191 - Rec Management Practicum**

Supervised field experience in national, state, urban, or private park and recreation operations. Prerequisite: Junior or senior standing in Recreation Management.

Credits: 1.00 to 6.00

**RM 230 - Ecotourism**

Study of nature-based travel emphasizing international destinations. Examination of ecotourism as a tool for preservation and economic development. Prerequisites: Junior or senior standing (Not offered for graduate credit.)

Credits: 3.00

**RM 235 - Outdoor Recreation Planning**

Planning large land areas for outdoor recreation use. Emphasis on the planning process relative to the leisure time use of natural resources. Prerequisites:



Advanced standing in Recreation Management or permission. UG only.

Credits: 4.00

**RM 240 - Park and Wilderness Management**

History, philosophy, and management of wilderness, national parks, and related areas. Prerequisite: Junior or senior standing in Recreation Management.

Credits: 3.00

**RM 255 - Environmental Interpretation**

Philosophy, principles, and techniques of communicating environmental values, natural history processes, and cultural features to recreation visitors through the use of interpretive media. Prerequisite: Advanced standing in Recreation Management or permission.

Credits: 4.00

**RM 258 - Entrepreneurship Rec&Tourism**

Study of entrepreneurial theories, concepts, and practices and their application to recreation and tourism. Emphasis on preparation of individual business plans.

Prerequisites: Junior or senior standing in Recreation Management or permission. (Not offered for graduate credit.)

Credits: 3.00

**RM 299 - Recreation Management Honors**

Honors project dealing with management of outdoor recreation and tourism.

Prerequisite: By application only; see program chair. UG only.

Credits: 3.00



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## Courses in Religion (REL)

### REL 020 - Intro Rel:Comparative

Comparison of diverse practices and beliefs from selected religious traditions and cultures.

Credits: 3.00

### REL 021 - Intro Rel:Asian Traditions

Study of the Hindu, Buddhist, and East Asian religious traditions as expressed in their basic symbolisms, writings, practices, and cultural forms.

Credits: 3.00

### REL 022 - Intro Rel:Western Traditions

Study of the basic motifs, mythic patterns, and historical transformations in religious life from the ancient Near East to the modern West.

Credits: 3.00

### REL 023 - Intro Rel:Bible

Study of religious expressions as exemplified in biblical and related texts.

Credits: 3.00

### REL 027 - Integr Humanities

Study of religious and philosophical thought in Western culture from Hebraic and Greek antiquity to present. Prerequisites: Concurrent enrollment in Integrated Humanities Program, English 27, 28 and History 27, 28.

Credits: 3.00

### REL 028 - Integrated Humanities

Study of religious and philosophical thought in Western culture from Hebraic and Greek antiquity to present. Prerequisite: Concurrent enrollment in Integrated Humanities Program; ENGS 027, ENGS 028, HST 027, and HST 028.

Credits: 3.00

**REL 080 - Religion & Race in America**

Historical survey of forms of African-American religion in the U.S. in their relation to slavery, segregation, and civil rights; current issues in education and cultural diversity.

Credits: 3.00

**REL 095 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**REL 096 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**REL 100 - Interpretation of Religion**

Examination of major theories and methods used in studying and interpreting religious phenomena. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 101 - Social Dimension Rel Life**

Comparative study of communal forms of religious life, such as cosmic state, monasticism, sect, caste and denomination, from a variety of cultures-Eastern, Western, tribal, and modern-with a concern for their meanings as fundamental forms of religious expression. Prerequisite: Three hours in Religion or Sociology.

Credits: 3.00

**REL 104 - Mysticism, Shamanism & Possessn**

Comparative study of ways in which the inward dimension of religious life finds expression. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 108 - Myth, Symbol & Ritual**

Study of patterns and significance of myth and ritual as they appear in cross-cultural perspective, with reference to contemporary interpretations of symbol and language. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 109 - Ritualization:Rel,Body,Culture**

A cross-cultural examination of ritual strategies for integrating personal and social experience, with attention to various theories and types of religious ritual.

Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 114 - Hebrew Scriptures**

Study of the history and writings of the Hebraic-Judaic religion to the first century B.C. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 116 - Judaism**

Investigation of sustaining rituals, customs, institutions, and beliefs of normative Judaism. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 122 - Christian Origins**

Historical study of the first four centuries of Christianity in its sociocultural context, including consideration of New Testament texts. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 124 - Christianity**

Historical study of the Christian tradition examining major religious movements of early, medieval, and Reformation Christianity, and the spirituality of Christians during these periods. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 128 - Religion in America**

Study of the relationship between religion, the cultural ethos, and identity in America. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 130 - Islam**

Overview examining doctrines and practices of Muslims and their religious institutions from the rise of Islam to the present. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 131 - Studies in Hindu Tradition**

Selected writings, rituals, and developments in the Hindu tradition with reference to cultural assumptions of India. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 132 - Buddhist Traditions**

A survey of Buddhist beliefs and practices in a diversity of cultures, including some modern developments. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 141 - Religion in Japan**

An examination of Japanese values as expressed in folk, Shinto, and Buddhist traditions, and in social structures, aesthetic pursuits, or business practices. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 145 - Religion in China**

Examination of Classical, Confucian and Taoist thought through texts in translation, developments in these traditions, and interactions with folk religion and Buddhism in the premodern period. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 168 - Contemporary Spiritual Life**

Study of human involvement with the spiritual as manifested in contemporary religious groups, or in modern theory and practice of meditation. Prerequisite: Three hours in Religion.

Credits: 3.00

**REL 173 - Studies in Gender & Religion**

Selected topics focusing on the social and religious construction of gender and the shape of women's religious lives. Religious traditions studied vary by semester. Prerequisite: Three hours in Religion. May be repeated up to six hours.

Credits: 3.00

**REL 180 - Moral&Rel Persp on Holocaust**

A study of the Holocaust in relation to questions of moral responsibility, justice, guilt, and human suffering, focusing on Jewish responses. Prerequisite: Three hours in Religion, HST 190, or Permission of Instructor.

Credits: 3.00

**REL 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**REL 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**REL 197 - Readings & Research**

Variable credit.

Credits: 3.00

**REL 198 - Readings & Research**

Variable credit.

Credits: 1.00 to 6.00

**REL 201 - Senior Seminar**

Selected contemporary issues in theory and interpretation; preparation and

presentation of individual senior projects. Prerequisites: Twelve hours in religion, including 100 and six hours at the intermediate level, senior standing. UG only.

Credits: 3.00

**REL 214 - Studies in Judaica**

Selected topics of concentration emerging out of and related to the study of normative Judaism, e.g. the prophetic faith, Rabbinic Judaism, Hasidism, and Jewish mysticism. Prerequisite: Nine hours in religion, with three hours at the intermediate level (116 recommended). May be repeated up to six hours. (Not offered for graduate credit.)

Credits: 3.00

**REL 224 - Studies in Christianity**

Examination of selected issues, movements, periods, or individuals within the Christian tradition. Prerequisites: Nine hours in religion (122, 124, or 173 recommended). May be repeated up to six hours. UG only.

Credits: 3.00

**REL 226 - Studies in Hellenistic Rel**

Study of religion in the Mediterranean area during the period from the 4th century B.C. through the 4th century A.D. including Christian origins. Prerequisite: Nine hours in religion, with three hours at the intermediate level. (Not offered for graduate credit.)

Credits: 3.00

**REL 228 - Studies in Western Rel Thought**

Important figures, issues, movements, or texts examined. Prerequisite: Nine hours in religion, with three hours at the intermediate level. May be repeated up to six hours. (Not offered for graduate credit.)

Credits: 3.00

**REL 230 - Studies in Islam**

Topics varying by semester such as Women and Islam, Sufi (mystical) traditions, Shi'ite Islam, Islam and the West, and South Asian Muslim Cultures. Prerequisites: Nine hours in Religion, with three hours at the intermediate level (130 recommended). UG only.

Credits: 3.00

**REL 234 - Buddhism in Sri Lanka**

An examination of Theravada Buddhist belief and practice in the context of Sri Lankan culture, with attention to lay and monastic interaction. Prerequisite: Nine hours in Religion with three hours at the intermediate level, or REL 132.

Credits: 3.00

**REL 259 - Religion and Secular Culture**

Comparison of religious and secular systems of meaning, value, and practice.

Prerequisite: Nine hours in religion, with three hours at the intermediate level. (Not offered for graduate credit.)

Credits: 3.00

**REL 280 - Symbol & Archetype**

Study of the work of C.G. Jung and the Jungian circle as it bears upon the interpretation of religion and as it represents a 20th century religious quest.

Prerequisite: Nine hours in religion, with six hours at the intermediate level. (Not offered for graduate credit.)

Credits: 3.00

**REL 291 - Tpcs in Hist & Phenom of Rel**

Prerequisite: Nine hours in Religion, with six hours at the intermediate level; Junior standing. May be repeated up to six hours.

Credits: 3.00

**REL 292 - Tpcs in Hist & Phenom of Rel**

Prerequisite: Nine hours in Religion, with six hours at the intermediate level; Junior standing. May be repeated up to six hours.

Credits: 3.00

**REL 297 - Interdisciplinary Seminar**

Student-faculty workshop on a topic of current interest, employing resources from various disciplines. Prerequisites: Nine hours in religion, with six hours at the intermediate level, junior standing, instructor's permission. (Not offered for graduate credit.)

Credits: 3.00

**REL 298 - Interdisciplinary Seminar**

Student-faculty workshop on a topic of current interest, employing resources from various disciplines. Prerequisites: Nine hours in religion, with six hours at the intermediate level, junior standing, instructor's permission. (Not offered for graduate credit.)

Credits: 3.00

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## Courses in Resource Economics (RSEC)

### RSEC 121 - Resource Economics

Credits: 3.00

### RSEC 222 - Natural Resources Evaluation

Credits: 3.00

### RSEC 256 - Special Topics

Credits: 1.00 to 6.00



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## Courses in Russian (RUSS)

### **RUSS 001 - Elementary Russian**

An introduction to all aspects of contemporary standard Russian: speaking, listening, reading, writing. Cultural components include topics such as music, art, literature, and current events. No previous knowledge of Russian needed for RUSS 001.

Credits: 4.00

### **RUSS 002 - Elementary Russian**

An introduction to all aspects of contemporary standard Russian: speaking, listening, reading, writing. Cultural components include topics such as music, art, literature, and current events. Prerequisite: RUSS 001 or equivalent.

Credits: 4.00

### **RUSS 051 - Intermediate Russian**

Continued practical work in all language skills (speaking, listening, reading, writing), with more analysis of the structure of Russian. Continuation of cultural components. Prerequisite: RUSS 001, RUSS 002.

Credits: 4.00

### **RUSS 052 - Intermediate Russian**

Continued practical work in all language skills (speaking, listening, reading, writing), with more analysis of the structure of Russian. Continuation of cultural components. Prerequisite: RUSS 051.

Credits: 4.00

### **RUSS 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**RUSS 096 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 1.00

**RUSS 101 - Phonology**

Practical work on Russian intonation, element order, and phonetics, using primarily Russian materials. Classroom and language laboratory work. May be taken together with RUSS 052. Prerequisite: RUSS 052 or concurrent enrollment in RUSS 052.

Credits: 3.00

**RUSS 121 - Composition & Conversation**

Continued practical work on all four language skills. Emphasis on oral and written self-expression. Presentations and compositions based on Russian-language media and literature. Prerequisite: RUSS 052

Credits: 3.00

**RUSS 122 - Composition & Conversation**

Continued practical work on all four language skills. Emphasis on oral and written self-expression. Presentations and compositions based on Russian-language media and literature. Prerequisite: RUSS 052.

Credits: 3.00

**RUSS 141 - Reading Comprehension**

Development of contextual strategies for reading authentic texts on a number of content areas, primarily expository texts from Russian newspapers, magazines, historical and scientific documents. Prerequisite: RUSS 052.

Credits: 3.00

**RUSS 142 - Listening Comprehension**

Intensive directed aural work with authentic Russian-language media (especially television, radio, and films), supplemented by work on vocabulary development and listening strategies. Prerequisite: RUSS 052.

Credits: 3.00

**RUSS 161 - Russian Lexicology**

Study of Russian word roots and derivational morphology to increase vocabulary recognition and retention, building on correspondences with English/Latinic equivalent roots where possible. Prerequisite: RUSS 052.

Credits: 3.00

**RUSS 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**RUSS 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**RUSS 197 - Readings & Research**

Credits: 3.00

**RUSS 198 - Readings & Research**

Credits: 3.00

**RUSS 201 - Survey of Russian Literature**

Readings and discussions about Russian literature to the rise of modernism. Particular attention to the social and historical context of the 19th century novel. Prerequisite: RUSS 052. WLIT 118 recommended.

Credits: 3.00

**RUSS 202 - Survey 20th Century Russ Lit**

Readings and discussions about Russian literature from the rise of modernism to present. Particular attention to function of literature in Soviet society. Prerequisite: RUSS 052. WLIT 118 recommended.

Credits: 3.00

**RUSS 221 - Cult & Civ to 1905 Revolution**

Social, cultural, and political institutions from the time of Peter the Great to the 1905 revolution. Particular attention to Russian music, art, and literature. Prerequisite: RUSS 052.

Credits: 3.00

**RUSS 222 - Cult & Civ in the 20th Century**

Social, cultural, and political institutions from the 1905 revolution to the present. Particular attention to tensions between official and unofficial culture during the Soviet period. Prerequisite: RUSS 052.

Credits: 3.00

**RUSS 251 - Russian News Media**

Analysis of journalistic style and content in news coverage of contemporary events as reported in Russian newspapers and radio and television broadcasts. Prerequisite: RUSS 052, RUSS 141, or RUSS 142 recommended.

Credits: 3.00

**RUSS 282 - Seminar on Selected Author(s)**

Study of author(s) through close readings of representative texts supplemented by lectures and reports on the works' sociocultural context. May be repeated. Prerequisite: One 100-level Russian course.

Credits: 3.00

**RUSS 295 - Advanced Readings & Research**

See Schedule of Courses for specific titles.

Credits: 3.00

**RUSS 296 - Advanced Readings & Research**

See Schedule of Courses for specific titles.

Credits: 3.00



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## Courses in Secondary Education (EDSC)

### EDSC 011 - Ed Tech in Sec Ed Classroom

Students are introduced to a variety of uses for information technology in education with particular applications to stimulate and manage a student-centered classroom.

Credits: 3.00

### EDSC 050 - Exploring Education

Introduction to philosophical, psychological, sociological questions basic to teaching and learning. Exploration of beliefs and understandings about personal learning and the field of education.

Credits: 3.00

### EDSC 055 - Special Topics

Credits: 3.00

### EDSC 197 - Readings & Research

Credits: 3.00

### EDSC 200 - Contemporary Issues

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

### EDSC 207 - Adolscent Dev:Ed/Psy Perspec

In depth examination of developmental and learning theory with applications for teaching in secondary settings. Core activities: exploration of personalization in education and service learning. Co-requisites: EDFS 203/EDSC 209

Credits: 4.00

### **EDSC 209 - Practicum in Teaching**

Field-experience in secondary setting. Focus on school culture and student needs while documenting effectiveness in one-on-one teaching. Professional attributes/dispositions are critically assessed. Pre/co-requisite: EDFS 203/EDSC 207.

Credits: 4.00

### **EDSC 215 - Reading in Secondary Schools**

Theory and methods of reading/writing explored in the context of literacy. Focus on reading, writing, speaking and critical thinking across disciplines. Cultural contexts explored. Pre/co-requisite: EDSC 216.

Credits: 4.00

### **EDSC 216 - Curr,Instr&Assmt Sec Schl Tchr**

Development of methods related to secondary school teaching. Study and application of constructivist learning theory, differentiation, authentic assessment in planning. Focus on cross-disciplinary collaboration. Co-requisite: EDSC 215.

Credits: 3.00

### **EDSC 225 - Tchg Soc Studies in Sec Schls**

Includes multiple teaching modes, questioning techniques, micro-teaching laboratory, analysis of historical content to determine students' prerequisite cognitive skills and processes for construction of historical scenarios. Prerequisite: Twelve hours of education and related areas.

Credits: 3.00

### **EDSC 226 - Teaching Internship**

Collaboration with professional teachers in design and implementation of effective instruction, with special focus on developing programs in a high school setting. Prerequisite: EDSC 203, EDSC 207, EDSC 209, EDSC 215, EDSC 216, and Special Methods.

Credits: 12.00

### **EDSC 227 - Tchng Science in Sec Schls**

Consideration of science curricula and instructional strategies for grades 7-12. Topics may include: teaching science as problem solving, research in science teaching, affective education through science. Prerequisite: Twelve hours in education and related areas or Instructor permission.

Credits: 3.00

### **EDSC 230 - Teaching for Results**

Analysis of planning, curriculum design, teaching, evaluation and classroom management from the perspective of research and practice. Individual tasks culminate in production of a licensure portfolio. Co-requisite: EDSC 226.

Credits: 3.00

**EDSC 240 - Teach English:Secondary School**

Approaches to teaching composition, literature, and the English language in secondary school. Prerequisite: Acceptance into licensure program.

Credits: 3.00

**EDSC 257 - Tchg Math in Secondary Schools**

Contemporary secondary school mathematics curricula and instructional strategies for grades 7-12. Topics may include problem solving, research in mathematics education, use of calculators and computers, manipulatives, and evaluation.

Prerequisite: Twelve hours in education and related areas or permission.

Credits: 3.00

**EDSC 259 - Tchg Foreign Lang in Sec Schls**

An overview of language teaching methodology. The learning/ teaching process as it relates to language learning; techniques used in the teaching and testing of second language skills and culture. Prerequisite: Acceptance into licensure program.

Credits: 3.00

**EDSC 295 - Lab Experience**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 5.00

**EDSC 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1.00 to 6.00

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## Courses in Social Work (SWSS)

### **SWSS 002 - Foundations of Social Work**

An introduction to the profession of social work, its functions, values, knowledge, and the problems it addresses. Includes a service-learning component.

Credits: 3.00

### **SWSS 003 - Human Needs & Social Services**

Students provide volunteer service in a human service agency, relate observations to theory about clients, agency structure, programs, and operations, and assess their commitment to the profession of social work. Prerequisite: SWSS 002 or Instructor permission.

Credits: 3.00

### **SWSS 005 - Biosociopolitical Issues SW**

Outlines human body organ systems and extrapolates from the biological into the socio-political. Bioethical dilemmas, environmental racism, and multiple chemical sensitivity studied from a social work perspective. Prerequisite: Social Work major or Instructor permission.

Credits: 3.00

### **SWSS 007 - Quantitative Meth SW Research**

Introduction to statistics and social work research methods. This course introduces students to quantitative methodology in research and practice.

Credits: 3.00

### **SWSS 047 - Human Beh in the Soc Envr I**

Introduction to life-span development from birth to death. There is a primary focus on the individual. Prerequisites: 2, 3, or instructor's permission.

Credits: 3.00



**SWSS 048 - Human Beh in the Soc Envr II**

A systems approach to understanding various levels of social organization; for example, families, groups, organizations, and communities. Prerequisite: 47.

Credits: 3.00

**SWSS 055 - Special Topics**

Designed so that its content and structure may accommodate special issues not offered within the boundaries of an existing course. Open to First-Year and Sophomore students.

Credits: 3.00

**SWSS 060 - Racism & Contemporary Issues**

Study of perception, conceptualization, and comprehension of racism. Strategies, techniques, and procedures to identify and decrease many facets of racism.

Credits: 3.00

**SWSS 150 - Laboratory Experience**

Supervised practicum for advanced level students. Pre/co- requisites: Social Work major, permission, pre-arrangement.

Credits: 4.00

**SWSS 160 - Soc Wrk Pr:Chld,Fam&Youth Svc**

Explores perspectives relevant to child protection and family support. Emphasizes skills in writing reports, giving oral testimony, making referrals, interdisciplinary collaboration, ethical decision making, cultural competence. Pre/co-requisite: Junior status in Social Work; SWSS 002, SWSS 003, SWSS 047, SWSS 048; or permission of Instructor.

Credits: 3.00

**SWSS 164 - Intro Social Work Research**

Introduction to models and methods of social research from a social work perspective. Prerequisite: SWSS 002, SWSS 003, SWSS 047, SWSS 048, or Instructor permission.

Credits: 3.00

**SWSS 165 - Iss & Pol in Social Welfare I**

An introduction to economic, political, historical, and social forces that influence the development and implementation of social welfare policy. Prerequisite: SWSS 002, SWSS 003, SWSS 047, SWSS 048, or Instructor permission.

Credits: 3.00

**SWSS 166 - Iss & Pol in Social Welfare II**

In-depth examination of social welfare policy and accompanying social services in the U.S.; major policy analysis models presented and used. Prerequisite: SWSS 165 or Instructor permission.

Credits: 3.00

**SWSS 168 - Social Work Practice I**

Social work theory and practice methods employed by social workers in providing services to individuals, families, and small groups. Prerequisite: Social Work major, Senior standing or Instructor permission.

Credits: 3.00

**SWSS 169 - Social Work Practice II**

Social work theory and practice methods employed by social workers in providing services to groups, organizations, and communities. Prerequisites: Social Work major; SWSS 168; Senior standing; or Instructor permission.

Credits: 3.00

**SWSS 171 - Field Experience Seminar I**

Weekly integrative seminar; discussion of practice within field agency.

Prerequisite: Concurrent enrollment in SWSS 173.

Credits: 3.00

**SWSS 172 - Field Experience Seminar II**

Weekly integrative seminar; discussion of practice within field agency.

Prerequisite: Concurrent enrollment in SWSS 174.

Credits: 3.00

**SWSS 173 - Field Experience I**

Supervised field-based learning of 15-20 hours per week. Students are placed in human service agencies and organizations and learn the application of social work, theory, ethics and skills. Pre/co-requisite: Social Work major; Senior standing; Instructor permission; taken concurrently with SWSS 168 and SWSS 171.

Credits: 6.00

**SWSS 174 - Field Experience II**

Supervised field-based learning of 15-20 hours per week. Students are placed in human service agencies and organizations and learn the application of social work, theory, ethics and skills. Pre/co-requisite: Social Work major; Senior standing; Instructor permission; SWSS 168 and SWSS 171; taken concurrently with SWSS 169 and SWSS 172.

Credits: 6.00

**SWSS 197 - Readings & Research**

Prerequisite: Social Work major. Pre-arrangement only. Variable credit.

Credits: 3.00

**SWSS 200 - Contemporary Issues**

Content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Instructor Permission.

Credits: 3.00

**SWSS 212 - Social Work Practice I**

A comprehensive introduction to concepts and skills employed by social workers in interactions and interventions with individuals, families, and groups is provided.

Prerequisite: MSW standing; or Instructor permission.

Credits: 3.00

**SWSS 213 - Social Work Practice II**

Knowledge and skills of social work practice with organizations and communities is emphasized. Prerequisite: Completion of SWSS 212; MSW advanced standing; or Instructor permission.

Credits: 3.00

**SWSS 216 - Th Found of Hum Beh&Soc Envr I**

This course introduces students to the biological, psychological, cultural/social, and economic forces that influence human behavior and their implication for social work practice. Prerequisite: MSW standing; or Instructor permission.

Credits: 3.00

**SWSS 217 - Th Found Hum Beh&Soc Envr II**

Focus is on theories regarding the nature and functioning of human service organizations and communities in relation to meeting human needs. Prerequisite: SWSS 216 or Instructor permission.

Credits: 3.00

**SWSS 220 - Soc Welfare Pol & Services I**

An introduction to history and philosophy of social work and social welfare and the structure of service programs is provided. Prerequisite: MSW standing or Instructor permission.

Credits: 3.00

**SWSS 221 - Soc Welfare Pol & Services II**

Focus is on the analysis of the economic, political, and social forces that influence the development and implementation of social welfare policy. Prerequisite: SWSS 220; or Instructor permission.

Credits: 3.00

**SWSS 224 - Child Abuse & Neglect**

An MSW foundation elective that considers child abuse and neglect from historical, cultural, sociopolitical and psychological perspectives and examines professional social work responses to them. Prerequisite: Matriculation in the foundation year of Graduate study in Social Work; or Instructor permission.

Credits: 3.00

**SWSS 225 - Transf Ourselves&Comm:SW Persp**

An MSW foundation elective that examines systems of oppression and social work strategies to decrease biased practices and create more equitable communities and institutions. Prerequisite: Matriculation in the foundation year of graduate study in Social Work; or Instructor permission.

Credits: 3.00

**SWSS 226 - Assessment Theory Social Work**

An MSW foundation elective analyzing competing and complementary assessment theories and their implications in social work in health/mental health and with children and families. Prerequisite: MSW standing or Instructor permission.

Credits: 3.00

**SWSS 227 - Found of Social Work Research**

An introduction to qualitative and quantitative methods of applied social research including program evaluation and the evaluation of practice and application to social work is taught. Prerequisite: MSW standing or Instructor permission.

Credits: 3.00

**SWSS 290 - Foundation Yr Field Practicum**

Supervised field-based learning of 15-20 hours per week. Students are placed in human service agencies and organizations and learn the purposeful application of generalist social work theory, ethics, and skills. Prerequisite: Permission of Coordinator of Field Education.

Credits: 3.00 to 4.00

**SWSS 296 - Social Work in Global Context**

Study of social work issues in different parts of the world. Located at the University of Lapland in Finland. Prerequisite: Background in human services or social work major; or MSW standing; permission of the Instructor.

Credits: 3.00

**SWSS 301 - Social Work in Health**

Based on examinations of current trends with clients of multiple ages, needs, and cultural perspectives, this course examines social work roles in delivering health services. Prerequisites: Completion of foundation coursework; MSW advanced standing; or Instructor permission.

Credits: 3.00

**SWSS 302 - Social Work in Mental Health**

Advanced knowledge and skills in working with children with severe emotional disturbances and adults with persistent mental illness. Community-based services are emphasized. Prerequisites: Completion of foundation coursework; MSW advanced standing; or Instructor permission.

Credits: 3.00

**SWSS 310 - Soc Work W/ Children & Fam I**

Focus is on families whose major task is child rearing and child caring. Covers advanced knowledge, concepts, and methods of contemporary child/family services within a family-centered approach. Prerequisites: Completion of foundation course work; MSW advanced standing; or Instructor permission.

Credits: 3.00

**SWSS 311 - Soc Work W/Children & Fam II**

Focus is on families with adolescents, families with no children and families with dependent adults. Advanced analysis of families from an adult member perspective and from a critical view of family ideology and myth. Prerequisites: Completion of foundation coursework; MSW advanced standing; or Instructor permission.

Credits: 3.00

**SWSS 316 - Crit Appl of Hum Beh&Soc Envr**

This course emphasizes advanced analyses of behavioral and social theories as related to social work practice in health and mental health and/or with children and families. Prerequisite: Completion of 216 and 217, MSW advanced standing or permission.

Credits: 3.00

**SWSS 320 - Adv Soc Welf Policy Anyl&Prac**

In depth analysis of social welfare policy with application to children and families or health and mental health is required. There is an emphasis on the skills of the policy practitioner. Prerequisite: Completion of SWSS 220 and SWSS 221; MSW advanced standing; or Instructor permission.

Credits: 3.00

**SWSS 327 - Adv Social Work Research**

An analysis of social work research from methodological and theoretical perspectives is emphasized. The application of research to the student's concentration area is required. Prerequisites: Completion of SWSS 227; a basic statistics course; MSW advanced standing; or Instructor permission.

Credits: 3.00

**SWSS 330 - Assessment in Social Work**

An advanced MSW concentration elective that analyzes competing and complementary assessment strategies and their implications in social work in health/mental health and with children and families. Prerequisite: Completion of MSW foundation course work; or Instructor permission.

Credits: 3.00

**SWSS 331 - Feminist Social Work Practice**

An advanced MSW concentration elective that analyzes practice conceptions and dilemmas of feminist social work in a global context and emphasizes professional

activism and leadership. Prerequisite: Completion of MSW foundation course work; or Instructor permission.

Credits: 3.00

**SWSS 332 - SW w/Battered Women&Children**

An advanced MSW concentration elective that investigates theoretical and practical issues of social work practice with battered women and their children and develops related recommendations. Prerequisite: Completion of MSW foundation course work; or Instructor permission.

Credits: 3.00

**SWSS 333 - Social Work with Groups**

An advanced MSW concentration elective that integrates professional history, conceptual overviews and direct experience with methods for group work distinctive to social work practice. Prerequisite: Completion of MSW foundation course work or Instructor permission.

Credits: 3.00

**SWSS 380 - Prof Issues in Social Work**

Designed to cover selected social work issues in depth. Major emphasis on intensive and critical analysis of the literature and practice in a given area.

Prerequisite: Instructor Permission.

Credits: 4.00

**SWSS 390 - Concentration Yr Field Pract**

Supervised field-based learning of 15-20 hours per week. Students are placed in human service agencies and organizations and apply advanced social work practice related to an area of concentration. Prerequisite: Completion of all Foundation Year Graduate Level Coursework; permission of Field Education Coordinator.

Credits: 3.00

**SWSS 397 - Independent Study**

Individual work on Social Work issue(s) selected by the student in consultation with a faculty member. Prerequisite: Instructor permission required.

Credits: 3.00

**SWSS 398 - Final Project**

A written identification and analysis of a social work issue related to the student's concentration is prepared and presented. Prerequisite: Successful completion of foundation coursework and Instructor permission. Variable three credits. Total of three credits required. Fulfills Graduate College comprehensive examination requirement.

Credits: 1.00



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## Courses in Sociology (SOC)

### **SOC 001 - Introduction to Sociology**

Fundamental principles and problems in the sociological analysis of the structure and dynamics of modern society.

Credits: 3.00

### **SOC 011 - Social Problems**

Introduction to sociology through detailed examination of a selected number of major structural problems characteristic of contemporary societies. Problems treated may vary.

Credits: 3.00

### **SOC 014 - Deviance & Social Control**

Analysis of the causes and consequences of social behavior that violates norms. Examines patterns of deviant socialization and social organization and forms of deviance control.

Credits: 3.00

### **SOC 019 - Race Relations in the US**

Analysis of racial prejudice, discrimination, and other dominant group practices directed toward Native, Asian-, and African-Americans and their social movements for integration, accommodation, and separatism.

Credits: 3.00

### **SOC 020 - Aging: Change & Adaptation**

Individual and social meanings of aging and old age; physical, physiological, psychological, and sociological changes accompanying aging; individual, family, community, and societal adaptations to aging. Crosslists: Nursing 20 and Early Childhood and Human Development 20/Education.

Credits: 3.00

**SOC 029 - Sex, Marriage & Family**

Description and analysis of contemporary patterns in American sexual, marital, and familial behavior; their historical development, variants, and the evolving alternatives to traditional normative forms.

Credits: 3.00

**SOC 032 - Social Inequality**

Introduction to structured class inequality in the U.S., causes and consequences. Focus on wealth, prestige, and power. Inequalities of age, gender, and ethnicity also examined.

Credits: 3.00

**SOC 043 - Survey of Mass Communication**

The historical development of the socioeconomic, political, educational, and religious impacts of the press, film, radio, and television in American society.

Credits: 3.00

**SOC 057 - Drugs & Society**

Patterns of illicit drug distribution, use, abuse, and control in contemporary society. Examines the interaction of cultural, social, psychological, and physiological factors in prohibited drug-taking.

Credits: 3.00

**SOC 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**SOC 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**SOC 100 - Fund of Social Research**

Introduction to research methods in social science. Includes examination of research design, measurement, data collection, data analysis, and the presentation and theoretical interpretation of research findings. Prerequisite: Three hours of sociology or six hours in a related social science. Crosslist: Political Science 181.

Credits: 4.00

**SOC 101 - Developm't Sociological Theory**

Classical sociological theory including Marx, Weber, Durkheim, and Mead, as well as DuBois and early female theorists such as Martineau. Reading and writing intensive. Prerequisites: Six hours of Sociology or equivalent preparation in another social science with Instructor permission.

Credits: 3.00



**SOC 102 - Population, Environment & Soc**

Analysis of the causes and consequences of varying relationships among population size, distribution and composition, social organization, technology, and resource base. Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 103 - Environ Crises Modern Society**

Examines global, national, and local ecological crises both empirically and theoretically. Emphasis on economic processes, political/legal aspects, and social activism. Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 105 - The Community**

Comparative examination of patterns of social interaction in social groups with common territorial bases in contemporary societies and the analysis of community structure and dynamics. Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 109 - The Self & Social Interaction**

Analysis of the roles of sociocultural and situational factors in individual behavior and experience and the social genesis, development, and functioning of human personality. Prerequisite: Three hours of Sociology or PSYC 001.

Credits: 3.00

**SOC 115 - Crime**

Analysis of the nature and types of behavior that violates law, the mechanisms for defining such behaviors as criminal and their causes and consequences.

Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 118 - Race, Crime&Criminal Justice**

A comprehensive examination of race, gender, and class on racial minorities' participation in criminal activities and how individuals are treated by the criminal justice system. Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 119 - Race & Ethnicity**

Description and analysis of ethnic, racial, and religious groups in the U.S.

Examination of social/cultural patterns in the larger society and in these groups themselves. Prerequisite: Three hours of Sociology. Cross-listed with: ANTH 187.

Credits: 3.00

**SOC 120 - Aging in Modern Society**

Analysis of contemporary needs and problems of the elderly, including discrimination, poverty, health care, and loneliness, and the evaluation of services and programs for the elderly. Prerequisite: Three hours of Sociology or

professional experience working with the elderly.

Credits: 3.00

**SOC 122 - Women & Society**

Analysis of the changes in the role of women in contemporary society and their consequences for female socialization, the family, and the other major social institutions. Prerequisite: Three hours of sociology. Crosslist: WGST 101.

Credits: 3.00

**SOC 128 - Sociology of Childhood**

Examination of socio-historical changes in the construction of childhood and experiences of children; applications of interpretive approaches in contemporary sociology to analyze children's peer cultures. Prerequisites: three hours of Sociology.

Credits: 3.00

**SOC 132 - Affluence & Poverty in Mod Soc**

Examination of structured social inequality in contemporary American society with special attention to the distribution of wealth and its relationship to power, prestige, and opportunity. Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 145 - Youth and Popular Culture**

Examination of the historical and contemporary development of children's popular culture, its sociocultural significance, and children's perspectives on various cultural forms. Prerequisites: three hours of Sociology.

Credits: 3.00

**SOC 150 - Popular Culture**

Analysis of social significance of a selected range of contemporary non-elite cultural forms in the U.S., such as rock music, television programming, and popular literature. Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 151 - Sociology of Religion&Ideology**

Beliefs and value systems and their institutional arrangements, focusing on relationships between these systems and the larger social structure, in cross-cultural and historical perspective. Prerequisites: Three hours of Sociology or six hours of Religion.

Credits: 3.00

**SOC 154 - Social Org of Death & Dying**

Comparative examination of sociocultural adaptations to mortality with special attention to family, medical, legal, religious, and economic responses to fatal illness and death in contemporary society. Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 161 - Sociology of Leisure**

Analysis of the sociocultural organization of nonwork activity, emphasizing the relationships of class, life style, education, and work to contemporary recreation and leisure use patterns. Prerequisite: Three hours of Sociology.

Credits: 3.00

**SOC 171 - Soc Chng&Dev Persp in 3rd Wrld**

perspectives on development in the Third World. Prerequisite: Three hours in sociology.

Credits: 3.00

**SOC 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 4.00

**SOC 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**SOC 197 - Readings & Research**

Credits: 1.00

**SOC 198 - Readings & Research**

Credits: 3.00

**SOC 203 - Adv Environmental Sociology**

Examination of theoretical interpretations of environmental problems, sources, and solutions, focusing on the social conditions under which problems arise. Emphasis on writing and individual research projects. Prerequisite: Six hours of sociology including 1 and 100, or 1 and 101, or instructor permission. (not offered for Graduate credit)

Credits: 3.00

**SOC 205 - Rural Communities in Mod Soc**

The changing structure and dynamics of rural social organization in context of modernization and urbanization. Emphasis on rural communities in the U.S.

Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission. Cross-listed with:CDAE 205

Credits: 3.00

**SOC 206 - Urban Communities in Mod Soc**

The changing structure and dynamics of urban social organization in context of modernization and urbanization. Emphasis on cities and metropolitan areas in the U.S. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 207 - Community Org & Development**

Communities as changing sociocultural organizational complexes within modern society. Special attention given to problems of formulation and implementation of alternative change strategies. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission. Cross-listed with: CDAE 218.

Credits: 3.00

### **SOC 209 - Small Groups**

Examination of the structure and dynamics of small groups and the interpersonal, informal network of relations that characterize the interaction of members.

Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 211 - Soc Movements&Collective Behav**

Examination of origins, development, structure, and consequences of crowds, riots, crazes, rumors, panics, and political and religious movements and their relationships to cultural and social change. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 213 - Women in Dev in 3rd World**

An examination of the meaning and measurement of development, sociodemographic characteristics, sex stratification, and effects of Colonialism and Westernization on women's issues in the third world. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission. Cross-listed with: WGST 205.

Credits: 3.00

### **SOC 214 - Delinquency**

Analysis of the nature and type of juvenile behavior that violates law, the mechanisms for defining such behaviors as delinquent, and their causes and consequences. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 216 - Criminal Justice**

Analysis of the social structures and processes involved in the identification and labeling of individuals as criminal offenders: criminal law, its enforcement and the courts. Prerequisite: Six hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.00

### **SOC 217 - Corrections**

Analysis of the social structures and processes involved with individuals designated as offenders of criminal law: probation, prison, parole, and programs of prevention and rehabilitation. Prerequisite: Six hours of Sociology, including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 219 - Race Relations**

Examination of American racial subordination in social and historical perspective. Analysis of interracial contacts, racial subcultures and social structures, and responses to racial prejudice and discrimination. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 220 - Internship in Gerontology**

Supervised service or research internship integrating theoretical and practical gerontological issues. Prerequisites: 6 hours of Sociology including 1 and 100, or 1 and 101 or instructor permission or 20, 120; 221 or 222; or equivalent gerontological preparation (Not offered for graduate credit.)

Credits: 3.00

### **SOC 222 - Aging & Ethical Issues**

Analysis of selected ethical issues posed by an aging society and faced by older persons, their families, health care and service providers, and researchers. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 223 - Sociology of Reproduction**

Examines reproduction of cultural values in relation to social conduct of reproduction of human life (childbearing) under advanced capitalism. Prerequisite: Six hours of Sociology to include one of 29, 122, or 229. Crosslist: WGST 201. (not for Graduate credit)

Credits: 3.00

### **SOC 225 - Organizations in Mod Society**

Examination of basic classical and contemporary theory and research on the human relations, internal structures, environments, types, and general properties of complex organizations and bureaucracies. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 229 - Family as Social Institution**

Examination of the institution of the American family in cross-cultural and historical perspective. Theories and research on family continuity, change, and institutional relationships explored. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 232 - Social Class & Mobility**

Comparative and historical analysis of causes, forms, and consequences of structured social inequality in societies. Examination of selected problems in contemporary stratification theory and research. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 240 - Political Sociology**

Examination of the social organizations of power and authority in modern societies and the dynamics and institutional relationships of political institutions, interest groups, parties, and publics. Prerequisite: Six hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.00

### **SOC 243 - Mass Media in Modern Society**

Intensive examination of selected topics in the structure of media organizations and their relationships to and impacts upon the major institutions and publics of contemporary issues. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 250 - Sociology of Culture**

The relations of cultural forms and subjective experience to social structure and power; in-depth applications of interpretive approaches in contemporary sociology. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 252 - Sociology of Emotions**

Studies the theoretical premises of a sociocultural explanation of emotions; examines specific emotions such as respect, shame, hatred, love and compassion in humans; and explores the existence of emotions in non-human animals. Prerequisites: Three hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

### **SOC 254 - Sociology of Health & Medicine**

The social organization and institutional relationships of medicine in society and the role of sociocultural factors in the etiology, definition, identification, and

treatment of illness. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

**SOC 255 - Soc of Mental Health**

Analysis of the social structures and processes involved in the identification, definition, and treatment of mental illness and its sociocultural etiology and consequences. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

**SOC 258 - Sociology of Law**

Analysis of the sociocultural structure of the legal institution and its relationships to other institutions: the social organization of the legal profession, lawmaking, and the courts. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

**SOC 272 - Soc of African Societies**

Current social, cultural, political, and economic changes occurring in African societies, including issues of development, the state and civil society, social class, ethnonationalism, and democratization. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

**SOC 274 - Research Seminar**

Principles of research design, data gathering, ethics, measurement, data analysis, and data presentation. Students will complete a research project. Prerequisites: 6 hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.00

**SOC 275 - Meth of Data Anyl in Soc Rsch**

Quantitative analysis of sociological data; includes table, regression, and path analysis, scaling and factor analysis, and the analysis of variance emphasizing multivariate techniques. Prerequisite: 6 hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.00

**SOC 279 - Contemporary Sociological Thry**

Critical examination of contemporary functional, conflict, exchange, interactionist, and structural theoretical approaches. A number of other theoretical approaches selected by seminar participants also examined. Prerequisite: 6 hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.00

**SOC 281 - Seminar**

Presentation and discussion of advanced problems in sociological analysis.

Prerequisite: Twelve hours of Sociology; Instructor permission.

Credits: 3.00

**SOC 282 - Seminar**

Presentation and discussion of advanced problems in sociological analysis.

Prerequisite: Twelve hours of Sociology; Instructor permission.

Credits: 3.00

**SOC 285 - Internship**

Prerequisite: Twelve hours of sociology including at least one 200-level course in substantive area relevant to field placement, departmental permission. UG only.

Credits: 3.00

**SOC 286 - Internship**

Prerequisite: Twelve hours of sociology including at least one 200-level course in substantive area relevant to field placement, departmental permission. UG only.

Credits: 3.00

**SOC 288 - Rsch Meth Teaching Sociology**

The development and evaluation of the teaching of sociology. Prerequisite: Twelve hours of Sociology; permission of Department. Open only to students who serve concurrently as teaching assistants in the Department.

Credits: 3.00

**SOC 289 - Rsch Meth Teaching Sociology**

The development and evaluation of the teaching of sociology. Prerequisite: Twelve hours of Sociology; permission of Department. Open only to students who serve concurrently as teaching assistants in the Department.

Credits: 3.00

**SOC 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 100, or Instructor permission.

Credits: 4.00

**SOC 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

**SOC 297 - Readings & Research**

Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC



001 and SOC 101, or Instructor permission.

Credits: 1.00

**SOC 298 - Readings & Research**

Prerequisite: Six hours of Sociology included SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.00

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## Courses in Spanish (SPAN)

### SPAN 001 - Elementary I

Fundamentals of Spanish composition, comprehension, pronunciation, speaking, reading, writing. Structure of the basic Spanish sentence. No prior knowledge expected.

Credits: 4.00

### SPAN 002 - Elementary II

Continuation of SPAN 001. Prerequisite: SPAN 001 or equivalent.

Credits: 4.00

### SPAN 009 - Basic Spanish Grammar Review

Thorough review of Spanish grammar in preparation for intermediate level. Considerable emphasis on written exercises.

Credits: 3.00

### SPAN 051 - Intermediate Language Study I

Significant review of grammar, proceeding from basic knowledge of Spanish to increased proficiency in understanding, speaking, reading and writing.

Compositions, oral practice, reading. Prerequisite: SPAN 002 or SPAN 009 or equivalent. Placement Exam; 2-3 years in high school; consultation.

Credits: 3.00

### SPAN 052 - Intermediate Language Study II

Continues building on the skills developed in SPAN 051. More emphasis on accurate language usage and more extensive readings. Prerequisite: SPAN 051 or equivalent. Placement Exam; 3-4 years in high school; consultation.

Credits: 3.00

### SPAN 095 - Introductory Special Topics

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**SPAN 096 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.00

**SPAN 101 - Composition & Conversation**

Writing practice, sentence structure, correct expression, and guided discussions in Spanish of assigned topics. A good command of basic grammar expected.

Prerequisite: SPAN 052 or Instructor permission.

Credits: 3.00

**SPAN 105 - Phonetics & Phonology**

The sound system of Spanish: Spanish/English pronunciation contrasted; vowels, consonants, rhythms, intonation. Counts as major/minor elective, not for A&S language requirement. Prerequisite: SPAN 052 or Instructor permission.

Credits: 3.00

**SPAN 109 - Spanish Grammar**

An intensive study of Spanish grammar. Topical approach. Prerequisite: SPAN 052 or Instructor permission.

Credits: 3.00

**SPAN 140 - Analyzing Hispanic Literatures**

Introduction to basic genres of Hispanic literatures (narrative, poetry, drama, essay); development of analytical and critical reading/discussion skills. Short analytical papers and ample class discussion. Prerequisite: SPAN 101 or concurrent enrollment with Instructor permission.

Credits: 3.00

**SPAN 141 - Intro To Literature of Spain**

An introductory survey of major developments in Spanish peninsular literature. Readings and discussions focus on textual analysis, and historical and cultural contexts. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 142 - Intro To Lit Spanish America**

Readings and discussion focus on textual analysis, and historical and cultural contexts. Pre/co-requisite: SPAN 140.

Credits: 3.00

**SPAN 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 197 - Readings & Research**

Permission of chair required. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 198 - Readings & Research**

Permission of Chair required. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 201 - Adv Composition & Conversation**

To improve both written and oral proficiency. Textbook supplemented by panel discussions, debates, translation, and a weekly composition. Prerequisite: 101 or permission. (Not offered for graduate credit).

Credits: 3.00

**SPAN 202 - Topics in Spanish Lang Study**

Varied topics devoted to a special area such as translation, creative writing, Spanish for the professions (medicine, business, journalism, law), etc.

Prerequisite: 101 or permission. (Not offered for graduate credit).

Credits: 3.00

**SPAN 211 - History of Spanish Language**

The evolution of the Spanish language from its origins to the present. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 236 - Poetic Voices/Cultural Change**

A topical approach to exploration of self and society in Spain's poetic voices before 1700. Verses range from humorous to amorous, from satirical to political.

Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 237 - Issues in Early Spanish Lit**

An exploration of topics on Spain's richly diverse literature written before 1700.

Prose and/or theatre texts from this highpoint of cultural development are the focus. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 246 - Reading Cervantes**

A topical approach to the study of Cervantes, author of Don Quijote de la Mancha, and his works' significance as a reflection of/on Spain's literary-cultural landscape.

Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 252 - Span Lit:Dictatorshp-Democracy**

Literature in Spain from the Franco dictatorship to the present. Topics to include censorship and dissidence, writing-in-exile, and contemporary trends.

Prerequisite: 140. UG only.

Credits: 3.00

**SPAN 261 - Hispanic Writing from Margins**

Exploration of writers and communities at the margins of mainstream Latin-America and/or Spanish culture. Topics may include indigenous, Afro-Hispanic, regionalist authors; testimonial literatures; censorship. Prerequisite: SPAN 140 .

Credits: 3.00

**SPAN 264 - Border Literatures**

Introduction to border literatures of the Hispanic worlds. These texts partake of two or more cultural spheres, challenging traditional notions of linguistic, literary, cultural hegemony. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 274 - Latin-American Poetry**

A topical exploration of Latin-American poetry. Possibilities include the innovations of modernismo, recent hypertextual trends and more. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 279 - Act Out:Perf Cult'I Pol Lat Am**

A study of the relationship between Latin-American performance and its political contexts. Emphasis is placed on works particularly concerned with reshaping culture, politics, and aesthetics. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 281 - Contemp Spanish-Amer Fiction**

A study of representative works by major authors tracing the development of narrative forms from their roots in the last century to the present. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 286 - Writing Revolution-Latin Amer**

Topics may include early uprising against Spain, representation of revolutionary figures (Simon Bolivar, Pancho Villa, etc.), contemporary resistance to imperialism, among others. Prerequisite: 140.

Credits: 3.00

**SPAN 287 - Early Span Narratives Americas**

Readings and analysis of late 15th and 16th century narratives. Discussion of

European and Native American perspectives, religious disputes, and the "Leyenda Negra" (Black Legend). Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 290 - Hispanic Films in Context**

Approaching film as reflection and shaper of Hispanic cultures through comparison with texts relevant to cultural context. Includes study of film terminology and analysis. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 291 - Early Cultures of Spain**

A study of the Spanish cultures from earliest times through 1700, emphasizing major intellectual, political, and artistic developments. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 292 - Modern Cultures of Spain**

A study of the cultures of Spain from the Enlightenment to the present, emphasizing the major intellectual, political, and artistic developments.

Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 293 - Early Latin-American Cultures**

A study of colonial Latin American cultures from pre-Hispanic times through Independence. Emphasis on major intellectual, artistic, and cultural developments.

Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 294 - Modern Latin-American Cultures**

An overview of the cultures of Latin America with a multidisciplinary approach to understanding cultural constructions. Themes included: the city, nationhood, subjectivity, marginality. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: SPAN 140.

Credits: 4.00

**SPAN 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 297 - Advanced Readings & Research**

Permission of Chair required. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 298 - Advanced Readings & Research**

Permission of Chair required. Prerequisite: SPAN 140.

Credits: 3.00

**SPAN 299 - Topics in Hispanic Cultures**

Focus on a particular cultural topic in the Hispanic world. Study might emphasize regional studies, current conflicts on ecology, ethnicity, and gender. Prerequisite: SPAN 140.

Credits: 3.00

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## Courses in Special Education (EDSP)

### EDSP 005 - Iss Aff Persons W/Disabilities

Students explore the effects of severe disabilities. Best service practices, current legislation, advocacy, and family issues for children and adults are emphasized.

Credits: 3.00

### EDSP 197 - Independent Study

Credits: 1.00 to 3.00

### EDSP 200 - Contemporary Issues

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 3.00

### EDSP 201 - Foundations of Special Ed

Examination of historical, current trends in the treatment of individuals with disabilities, including the effects of litigation, legislation, and economic considerations on educational and residential service delivery systems.

Prerequisite: Twelve hours in education and related areas, or permission.

Credits: 3.00

### EDSP 202 - Stdnt w/Signif Dis:Char&Ed Int

Normal development - birth through six years, developmental disorders, disabilities, medical/health considerations. Management of significant disabilities through the employment of such procedures as handling, positioning, and feeding.

Prerequisites: Permission

Credits: 3.00

### EDSP 216 - Curr&Inst'r Needs/All Students



Introduction to curriculum and instruction for all students with a focus on individuals who present academic and behavioral challenges. Emphasis on assessment, evaluation, curriculum, instruction, theories of learning and social development. Prerequisite: Permission.

Credits: 3.00

**EDSP 217 - Instr Individ/Significant Disab**

Individualized instruction for learners with significant disabilities emphasizing objectives, assessment, task analysis, and behavior analysis. Prerequisite: Permission.

Credits: 3.00

**EDSP 224 - Meeting Inst Needs/All Stdnts**

Students apply principles of learning and social development to improve academic and social skills of all individuals with a focus on those who present academic and behavioral challenges. Prerequisite: Instructor permission.

Credits: 3.00

**EDSP 228 - Instr for Severely Handicapped**

Students apply advanced principles of behavior analysis in the development and implementation of instructional programs for learners with moderate and severe disabilities. Prerequisite: Instructor permission and introductory behavior analysis course.

Credits: 3.00

**EDSP 274 - Culture of Disability**

Focus on theoretical questions of how societies understand disability and its consequences for social justice, by examining the multiple determinants of the societal construction of disability. Prerequisites: Junior, senior or graduate standing. Corss-listings: CMSI 274.

Credits: 3.00

**EDSP 280 - Assessment in Special Ed**

Course covers assessment knowledge and skills essential for special educators, including test selection, administration and scoring, and legal issues related to special education assessment. Prerequisite: Admission to Graduate Program in Special Education or permission of the Instructor.

Credits: 3.00

**EDSP 290 - Meeting Curr Needs of Students**

Study of curriculum and technology areas related to the development, adaptation, and assessment of all students focusing on students with academic and behavioral challenges. Prerequisite: Permission.

Credits: 3.00

**EDSP 295 - Laboratory Exp in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 6.00

**EDSP 296 - Laboratory Exp in Education**

Credit as arranged.

Credits: 3.00

**EDSP 297 - Curr for Indvls W/Handicaps**

Students develop and implement an objectives-based curriculum for learners with learning disabilities, mental retardation, behavior disorders, and/or multidisabilities.

Prerequisite: Permission.

Credits: 3.00

**EDSP 298 - Special Educ Practicum**

Students provide direct instruction for six learners with learning disabilities, mental retardation, behavior disorders, and/or multidisabilities. Prerequisite: Instructor permission.

Credits: 3.00

**EDSP 301 - Hst of Serv/Hndicapped Individ**

Historical and current trends in treatment of individuals with disabilities, including effects of litigation, legislation, economic consideration in education, vocational, residential service delivery systems. Prerequisite: Acceptance as candidate for M.Ed. degree in special education, or permission.

Credits: 3.00

**EDSP 302 - Phys&Dev Char of Indiv w/Disab**

Normal development - birth through six years, developmental disorders, disabilities, medical/health considerations. Management of significant disabilities through the employment of such procedures as handling, positioning, and feeding. Prerequisite: Instructor permission.

Credits: 3.00

**EDSP 305 - Res Dev&Coll:Fam/Sch/Com/Agncy**

An overview of collaborative teaming, function assessment and Vermont's System of Care for students with emotional and behavioral disabilities. A practicum experience is included. Prerequisite: BA.

Credits: 3.00

**EDSP 306 - Emot&Behav Dis/Child&Adolesc**

This course provides an overview of emotional disorders (e.g., depression, anxiety, ADHD, conduct disorder) experienced by youth and relevant assessment tools for an educational setting. Prerequisite: BA.

Credits: 3.00

**EDSP 307 - Prev&Interv Strategy:Students**

This course covers effective prevention and intervention strategies with, or at-risk, for emotional and behavioral disorders. It covers such topics as classroom management, social skills training, anger management, internalizing disorders. Prerequisite: BA in Education/related field.

Credits: 3.00

**EDSP 310 - Curr & Tech in Spec Education**

Curricular and assessment areas essential to education of students with disabilities. Development, adaptation of curricula and assessment in early education, elementary and secondary and adult levels for mild, moderate, and severe disabilities. Prerequisite: Instructor permission.

Credits: 3.00

**EDSP 311 - Curr & Tech in Spec Education**

Curricular and assessment areas essential to education of students with disabilities. Development, adaptation of curricula and assessment in early education, elementary and secondary and adult levels for mild, moderate, and severe disabilities. Prerequisite: Instructor permission.

Credits: 3.00

**EDSP 312 - Adv Behavior Prin in Spec Ed**

A survey on behavior theory and research applications for learners with learning disabilities, mental retardation, behavior disorders, and multidisabilities. Prerequisite: Acceptance to M.Ed. program or Instructor permission.

Credits: 3.00

**EDSP 313 - Adv Behavior Prin in Spec Ed**

A survey on behavior theory and research applications for learners with learning disabilities, mental retardation, behavior disorders, and multidisabilities. Prerequisite: Acceptance to M.Ed. program or Instructor permission.

Credits: 3.00

**EDSP 319 - Intern Sp Personnel in Spec Ed**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Permission. for special education services. Prerequisite: Instructor permission.

Credits: 6.00

**EDSP 322 - Intern: Triadic Model Consult**

Competency-based instruction in oral and written communication, consultation, and workshop level training is provided. Students apply the consultation model in an educational setting. Prerequisite: EDSP 310, EDSP 312, or Instructor permission.

Credits: 3.00

**EDSP 323 - Intern: Systems Development**

Competency-based instruction in planning for system level development and change. Students apply systems theory in an educational setting. Prerequisite: EDSP 310, EDSP 312, or Instructor permission.

Credits: 3.00

**EDSP 380 - Professional Problems in Educ**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.00

**EDSP 386 - Intern:Mgmt Lrng Env for Hdcpd**

Implementation of data-based individualized education in one-to-one, small group, and large group instruction for severely disabled student(s) in special or regular classrooms. Prerequisite: EDSP 217, EDSP 290, EDSP 228 or Instructor permission.

Credits: 3.00

**EDSP 387 - Collaborative Consultation**

Adult development and group dynamics theory provide the knowledge base for collaborating with parents and teachers to meet the diverse needs of students with disabilities. Cross-listed with: EDLP 387, EDSS 387.

Credits: 3.00

**EDSP 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1.00 to 6.00

**EDSP 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 3.00



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## Courses in Speech (SPCH)

### SPCH 011 - Effective Speaking

Fundamentals course in effective, informative, and persuasive public speaking and critical listening. Includes theory and practice.

Credits: 3.00

### SPCH 095 - Special Topics

See Schedule of Courses for specific titles. Credits: 1-3. Fall only.

Credits: 6.00

### SPCH 096 - Special Topics

See Schedule of Courses for specific titles. Credits: 1-3. Spring only.

Credits: 3.00

### SPCH 111 - Persuasion

Human motivation, attitudes, emotion, stereotypes, attention and audience psychology as applied in the speaking situation. Prerequisite: SPCH 011.

Credits: 3.00

### SPCH 112 - Argument & Decision

Inductive, deductive, causal, and analogical reasoning as applied to the speaking situation. Prerequisite: SPCH 011.

Credits: 3.00

### SPCH 214 - Issues in Public Address

Each semester emphasizes analysis of specific speakers, movements, theses, and strategies encompassed by a selected topic of public address. Prerequisite: Nine hours of related courses, of which three must be at the 100 level.

Credits: 3.00

**SPCH 283 - Seminar**

Seminar topics include: Nonverbal Communication, Rhetorical Criticism, Advanced Argumentation, Advanced Persuasion, Debate, Interpersonal Communication in Group Interaction, Communication in Conflict Management. Prerequisite: Six hours of speech, of which at least three hours must be at the 100 level. Credits: 3. Fall only.

Credits: 3.00

**SPCH 284 - Seminar**

Seminar topics include: Nonverbal Communication, Rhetorical Criticism, Advanced Argumentation, Advanced Persuasion, Debate, Interpersonal Communication in Group Interaction, Communication in Conflict Management. Prerequisite: Six hours of speech, of which at least three hours must be at the 100 level. Credits: 3. Spring only.

Credits: 3.00

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## Courses in Statistics (STAT)

### **STAT 011 - Intro to Stats via Microcomp**

Various study designs considered. Graphical and analytic techniques for presenting results. Wide variety of applications surveyed. PC-based software used. Experience gained in sample survey work. Prerequisite: High school algebra.

Credits: 3.00

### **STAT 051 - Probability With Statistics**

Introduction to probabilistic and statistical reasoning, including probability distribution models and applications to current scientific/social issues. Roles of probability, study design, and exploratory/confirmatory data analysis. Prerequisite: Two years H.S. algebra. No credit for Sophomores, Juniors, or Seniors in the mathematical and engineering sciences.

Credits: 3.00

### **STAT 095 - Special Topics**

Lectures, reports, and directed readings at an introductory level. Prerequisite: As listed in course schedule.

Credits: 3.00

### **STAT 111 - Elements of Statistics**

Basic statistical concepts, methods, and applications, including correlation, regression, confidence intervals, and hypothesis tests. Prerequisite: Two years of high school algebra; Sophomore standing.

Credits: 3.00

### **STAT 141 - Basic Statistical Methods**

Foundational course for students taking further quantitative courses. Exploratory data analysis, probability distributions, estimation, hypothesis testing. Introductory

regression, experimentation, contingency tables, and nonparametrics. Computer software used. Prerequisites: Math. 11, 13, 19 or 21, sophomore standing.

Credits: 3.00

**STAT 143 - Statistics for Engineering**

Data analysis, probability models, parameter estimation, hypothesis testing. Multi-factor experimental design and regression analysis. Quality control, SPC, reliability. Engineering cases and project. Statistical analysis software.

Prerequisites: Math. 12, 14, 20 or 22, sophomore standing.

Credits: 3.00

**STAT 151 - Applied Probability**

Foundations of probability, conditioning, and independence. Business, computing, biological, engineering reliability, and quality control applications. Classical discrete and continuous models. Pseudo-random number generation.

Prerequisites: Math. 12, 14, 20 or 22.

Credits: 3.00

**STAT 153 - Prob & Stat for Cmptr Sci**

Foundations of probability, conditioning, independence, expectation and variance. Discrete and continuous probability distributions. Computer simulation examples. Introductory descriptive and inferential statistics. Simple regression analysis.

Pre/co-requisite: MATH 020 or MATH 022.

Credits: 3.00

**STAT 191 - Special Projects**

Student-designed special project under supervision of a staff member culminating in a report. Prerequisite: Junior standing; permission of Program Director.

Credits: 3.00

**STAT 195 - Special Topics**

Lectures, reports, and directed readings. Prerequisite: As listed in course schedule.

Credits: 3.00

**STAT 200 - Med Biostatistics&Epidemiology**

(Same as Biostatistics 200.) Introductory design and analysis of medical studies. Epidemiological concepts, case-control and cohort studies. Clinical trials. Students evaluate statistical aspects of published health science studies. Prerequisite: 141 or 143; or 211.

Credits: 3.00

**STAT 201 - Stat Analysis Via Computers**

(Same as Biostatistics 201.) Intensive coverage of computer-based data processing and analysis using statistical packages, subroutine libraries, and user-supplied programs. Students analyze real data and prepare a comprehensive



report. Prerequisites: 111 with instructor's permission, or 141, or corequisite 211.  
Credits: 3.00

**STAT 211 - Statistical Methods I**

(Same as Biostatistics 211.) Fundamental concepts for data analysis and experimental design. Descriptive and inferential statistics, including classical and nonparametric methods, regression, correlation, and analysis of variance. Statistical software. Prerequisite: Junior standing.  
Credits: 3.00

**STAT 221 - Statistical Methods II**

(Same as Biostatistics 221.) Multiple regression and correlation. Basic experimental design. Analysis of variance (fixed, random, and mixed models). Analysis of covariance. Computer software usage. Prerequisites: 141 or 143; or 211.  
Credits: 3.00

**STAT 223 - Applied Multivariate Analysis**

(Same as Biostatistics 223.) Multivariate normal distribution. Inference for mean vectors and covariance matrices. Multivariate analysis of variance (MANOVA), discrimination and classification, principal components, factor analysis. Prerequisites: Any 200-level Statistics course, 221 or 225 recommended, matrix algebra recommended.  
Credits: 3.00

**STAT 224 - Stats for Quality&Productivity**

(Same as Biostatistics 224.) Statistical process control; Shewhart, cusum and other control charts; process capability studies. Total Quality Management. Acceptance, continuous, sequential sampling. Process design and improvement. Case studies. Prerequisites: 141 or 143; or 211.  
Credits: 3.00

**STAT 225 - Applied Regression Analysis**

(Same as Biostatistics 225.) Simple linear and multiple regression models; least squares estimates, correlation, prediction, forecasting. Problems of multicollinearity and influential data (outliers).  
Credits: 3.00

**STAT 227 - Adv Statistical Methods II**

(Same as Psychology 341.) Prerequisite: 211 with computer experience or Psychology 340.  
Credits: 3.00

**STAT 229 - Survival Analysis**

(Same as Biostatistics 229.) Probabilistic models and inference for time-to-event data. Censored data, life tables, Kaplan-Meier estimation, logrank tests,

proportional hazards regression. Specialized applications (e.g. clinical trials, reliability). Prerequisites: Any 200-level Statistics course, one year of calculus.

Credits: 3.00

### **STAT 231 - Experimental Design**

(Same as Biostatistics 231.) Randomization, complete and incomplete blocks, cross-overs, Latin squares, covariance analysis, factorial experiments, confounding, fractional factorials, nesting, split plots, repeated measures, mixed models, response surface optimization. Prerequisites: 211; 221 recommended.

Credits: 3.00

### **STAT 233 - Survey Sampling**

(Same as Biostatistics 233.) Design and data analysis for sample surveys. Simple random, stratified, systematic, cluster, multistage sampling. Practical issues in planning and conducting surveys. Prerequisites: 211; or 141 or 143 with instructor's permission.

Credits: 3.00

### **STAT 235 - Categorical Data Analysis**

(Same as Biostatistics 235.) Measures of association and inference for categorical and ordinal data in multiway contingency tables. Log linear and logistic regression models. Prerequisite: 211.

Credits: 3.00

### **STAT 237 - Nonparametric Statistical Mthd**

(Same as Biostatistics 237.) Nonparametric and distribution free methods; categorical, ordinal, and quantitative data; confidence intervals; rank and chi-square hypothesis tests; computer-intensive procedures (bootstrap, exact tests). Prerequisites: 211; or 141 or 143 with instructor's permission.

Credits: 3.00

### **STAT 241 - Statistical Inference**

(Same as Biostatistics 241.) Introduction to statistical theory: related probability fundamentals, derivation of statistical principles, and methodology for parameter estimation and hypothesis testing. Prerequisites: 151 or 153 or 251; 141 or equivalent; Math. 121.

Credits: 3.00

### **STAT 251 - Probability Theory**

(Same as Math. 207.) Distributions of random variables and functions of random variables. Expectations, stochastic independence, sampling and limiting distributions (central limit theorems). Concepts of random number generation. Prerequisite: Math 121; Stat 151 or 153 recommended.

Credits: 3.00

### **STAT 252 - Appl Discr Stochas Proc Models**

Markov chain models for biological, social, and behavioral systems models. Random walks, transition and steady-state probabilities, passage and recurrence times. Prerequisite: STAT 151, STAT 153, or STAT 251.

Credits: 1.00

**STAT 253 - Appl Time Series & Forecasting**

(Same as Biostatistics 253.) Autoregressive moving average (Box-Jenkins) models, autocorrelation, partial correlation, differencing for nonstationarity, computer modeling. Forecasting, seasonal or cyclic variation, transfer function and intervention analysis, spectral analysis. Prerequisite: 211 or 225; or 141 or 143 with instructor's permission.

Credits: 3.00

**STAT 256 - Neural Computation**

(See Computer Science 256.)

Credits: 3.00

**STAT 261 - Statistical Theory I**

(Same as Biostatistics 261, 262.) Point and interval estimation, hypothesis testing, and decision theory. Application of general statistical principles to areas such as nonparametric tests, sequential analysis, and linear models. Prerequisites: STAT 251 or either STAT 151 or STAT 153 with instructor permission.

Credits: 3.00

**STAT 265 - Integrated Product Development**

(Same as Business Administration 293.)

Credits: 3.00

**STAT 270 - Stochastic Thry in Elec Eng**

(See Electrical Engineering 270.)

Credits: 3.00

**STAT 281 - Statistics Practicum**

Intensive experience in carrying out a complete statistical analysis for a research project in substantive area with close consultation with a project investigator.

Prerequisites: Any one of 200, 201, 221 through 237; or 253; some statistical software experience. No credit for graduate students in Statistics or Biostatistics.

Credits: 3.00

**STAT 293 - Undergrad Honors Thesis**

A program of reading, research, design, and analysis culminating in a written thesis and oral defense. Honors notation appears on transcript and Commencement Program. Contact Statistics Program Director for procedures.

Credits: 3.00

**STAT 294 - Undergrad Honors Thesis**

A program of reading, research, design, and analysis culminating in a written thesis and oral defense. Honors notation appears on transcript and Commencement Program. Contact Statistics Program Director for procedures.  
Credits: 4.00

**STAT 295 - Special Topics**

For advanced students. Lectures, reports, and directed readings on advanced topics. Prerequisite: As listed in course schedule.  
Credits: 4.00

**STAT 308 - Applied Biostatistics**

Intensive introduction to the rationale for and application of biostatistical methods in planning experiments and interpreting data in the biological, health and life sciences. Cross-listings: Molecular Physiology and Biophysics 308, Biostatistics 308.  
Credits: 5.00

**STAT 321 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Corequisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.  
Credits: 1.00

**STAT 323 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.  
Credits: 1.00

**STAT 324 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.  
Credits: 1.00

**STAT 325 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT

325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.00

**STAT 329 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisite: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.00

**STAT 380 - Sem:Statistics & Biostatistics**

Presentation and discussion of current topics, methodological research and applications in Statistics and Biostatistics by graduate students, faculty and guest speakers. Prerequisite: Instructor Permission.

Credits: 0.50

**STAT 381 - Statistical Research**

Methodologic or data analytic research culminating in oral and written reports to the faculty. Prerequisite: Instructor Permission. Cross-listed with: BIOS 381.

Credits: 3.00

**STAT 385 - Consulting Practicum**

Supervised field work in statistical consulting. Experiences may include advising UVM faculty and students or clients in applied settings such as industry and government agencies. Prerequisites: Second year Graduate standing in Statistics or Biostatistics and permission of Statistics Program Director.

Credits: 3.00

**STAT 391 - Master's Thesis Research**

Credits: 3.00

**STAT 395 - Advanced Special Topics**

Lectures or directed readings on advanced and contemporary topics not presently included in other statistics courses. Prerequisites: As listed in course schedule.

Cross-listed with: BIOS 395.

Credits: 3.00

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## Courses in Surgery (SURG)

### **SURG 195 - EMT - Basic**

Credits: 6.00

### **SURG 196 - EMT - Basic**

Credits: 3.00

### **SURG 197 - EMT - Intermediate**

Credits: 3.00

### **SURG 198 - EMT - Intermediate**

Credits: 3.00



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## Courses in Theatre (THE)

### **THE 001 - Introduction to Theatre**

Overview of general theatre practices and theories, emphasizing history, script analysis, character development, and communicative skills directed toward a modern audience.

Credits: 3.00

### **THE 005 - Oral Interpretation of Lit**

Performance of literature that is traditionally non-dramatic. Offered Summer Session only.

Credits: 3.00

### **THE 010 - Acting I: Intro to Acting**

Exercises to increase self-awareness and heighten perceptions of human behavior. Basics of script analysis and development of vocal and physical skills through practice and performance.

Credits: 3.00

### **THE 020 - Fundamentals of Lighting**

Primary course in the area of stage lighting design and execution.

Credits: 4.00

### **THE 030 - Fundamentals of Scenery**

A hands-on introduction to the theory and practical application of the scenic elements involved in play production (drawing, building, and painting techniques).

Credits: 4.00

### **THE 040 - Fundamentals of Costuming**

Primary course in area of costume design and construction. Fall only.

Credits: 4.00

**THE 041 - History of Costume**

(Same as Community Development and Applied Economics 117 and Women's & Gender Studies 78.) Overview of period costume and its adaptation for the stage. Alternating Fall semesters.

Credits: 3.00

**THE 042 - Fund Theatrical Make-up**

Focus on the development of drawing, painting, and sculpture skills as they relate to the creation of a dramatic character for the stage. Prerequisite: 40. Alternating Fall semesters.

Credits: 3.00

**THE 050 - Dramatic Analysis**

Examination of structural characteristics of the basic forms and styles of drama and the manner in which they affect theatrical representation. Fall only.

Credits: 3.00

**THE 095 - Special Topics**

Credits: 1-3. Fall only.

Credits: 3.00

**THE 096 - Special Topics**

Credits: 3.00

**THE 110 - Acting II:Contmp Scene Study**

Continuation of Acting I. Development of acting techniques through intensive scene work: refining script analysis and performance skills using contemporary scenes. Prerequisites: 10, permission for non-theatre majors and minors.

Credits: 3.00

**THE 111 - Acting III:Voice & Speech**

Study of the basics of voice production and Standard American Speech; exercises and practice focusing on freeing the voice and developing good vocal habits.

Prerequisites: 10 or permission for non-theatre majors and minors. Spring only.

Credits: 3.00

**THE 112 - Acting IV: Stage Movement**

Development of physical freedom and articulate physical expression through techniques promoting relaxation, flexibility, strength, creative spontaneity, and purposeful movement. Techniques applied to short movement performances.

Prerequisite: 10, or permission for non-theatre majors and minors. Fall only.

Credits: 3.00

**THE 120 - Lighting Design**

Explores, through classroom instruction and projects, the development of lighting designs for a variety of live performance situations. Prerequisite: THE 020. Fall



only.

Credits: 3.00

**THE 130 - Scene Design**

A practical application of the elements, principles, and styles of theatrical stage design through research, sketching, and rendering techniques. Prerequisite: THE 030. Spring only.

Credits: 3.00

**THE 131 - Scene Painting Concepts&Appl**

Lab course to study practical application of painting technique used in theatre, trompe l'oeil. Develops skills introduced in 30. Prerequisites: 30, 130, and either 20 or 40. Alternating Fall only.

Credits: 3.00

**THE 140 - Costume Design**

Elements, principles, and styles of design applied to the visual creation of a dramatic character. Prerequisites: THE 040, with THE 041 highly recommended. Spring only.

Credits: 3.00

**THE 141 - Adv Costume:Draping&Flat Pattn**

Explores the methods of creating period shapes. Students develop a sloper, fit it to a human body, create a researched and completed period costume. Prerequisite: 40. Spring, every fourth year. Alternating Spring only.

Credits: 3.00

**THE 142 - Adv Cost Const:Per Undrgarmts**

Focuses on techniques for creating artificial understructures that support period silhouettes. Corsets, hoop skirts, petticoats, etc., are researched, fit on the human body, and constructed. Prerequisite: 40. Spring only.

Credits: 3.00

**THE 143 - Adv Costume Constr:Millinery**

Explores methods of hat construction, including work in various media. Methods of shaping, covering, and trimming are researched, leading to the completion of hats. Prerequisites: 40. Spring only.

Credits: 3.00

**THE 144 - Adv Costume Constr:Tailoring**

Explores traditional methods of tailoring as well as practical adaptations for the stage. Research, discussion, and demonstration lead to completion of a period suit. Prerequisite: 40. Spring only.

Credits: 3.00

**THE 150 - Hist I:Class/Med/Ren Thtr**

A study of the theatrical rituals of Greece, Rome, and the Middle Ages leading to the reinvention of theatre in Renaissance Italy, England, and Spain. Prerequisites: 50 or English 95, Dramatic Analysis. Spring only.

Credits: 3.00

**THE 151 - Hst II:Ren France-20C Eur&USA**

A study of the historical context, theatrical conventions, and the plays representations of Neoclassicism, Romanticism, Realism, and the revolts against Realism. Prerequisite: 150. Fall only.

Credits: 3.00

**THE 160 - Stage Management**

Theory and practice for stage managing in the non-commercial theatre.

Prerequisites: 10; two of 20, 30, 40, 50. Spring only.

Credits: 3.00

**THE 190 - Theatre Practicum**

Students actively involved in current department productions may earn credit for work on stage or backstage. Project proposals must be approved by department faculty and be of significant scope to qualify for credit. Prerequisite: Variable, see department chair or advisors.

Credits: 3.00

**THE 195 - Special Topics**

See Schedule of Courses for specific titles. Credits: 1-3. Fall only.

Credits: 6.00

**THE 196 - Special Topics**

See Schedule of Courses for specific titles. Credits: 1-3. Spring only.

Credits: 3.00

**THE 197 - Readings & Research**

Credits: 9.00

**THE 198 - Readings & Research**

Credits: 0.50 to 9.00

**THE 200 - Professional Preparation**

Topics include preparing for auditions, portfolio reviews, interviews, and research papers for entrance into graduate schools or professional theatre venues.

Prerequisite: Junior/Senior standing and by Instructor permission only.

Credits: 3.00

**THE 210 - Acting V:Shakespeare Scne Stdy**

Refining and developing script analysis and performance skills using

Shakespeare, ancient Greek, Moliere, or other stylized texts. Prerequisite: 10. Fall

only.

Credits: 3.00

**THE 230 - Advanced Scene Design**

An in-depth study of the realization process for a stage design. A combination of script analysis, sketching, model making, rendering, and paint elevations, all as forms of communication. Prerequisites: 30, 130. Fall only.

Credits: 3.00

**THE 250 - Directing I**

Theory of theatrical directing, including script analysis; approaches to audition, rehearsal, and performance; coaching actors. Prerequisites: 10, 20, 30, 40, 50; either 130 or 140, either 150 or 151. Fall only.

Credits: 3.00

**THE 251 - Directing II**

Development of skills and aesthetic values through the direction of a complete one act play. Not offered as performance opportunity. Enrolled students may not perform as actors in their own projects. Prerequisites: 250, and declared senior Theatre majors only. Spring only.

Credits: 3.00

**THE 283 - Seminar**

Fall only. Credits: 3

Credits: 3.00

**THE 284 - Seminar**

Spring only. Credits: 3

Credits: 3.00

**THE 297 - Senior Readings and Research**

Fall only. Credits: 3

Credits: 3.00

**THE 298 - Senior Readings & Research**

Spring only. Credits: 1-3

Credits: 3.00



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### Courses in Vermont Studies (VS)

**VS 052 - Introduction to Vermont**

Survey of Vermont's geography, history, politics, social issues, ethnic populations, culture, and environment. Special emphasis on an interdisciplinary approach to the study of Vermont.

Credits: 3.00

**VS 055 - Environmental Geology**

See GEOL 055.

Credits: 4.00

**VS 064 - Native Americans of Vermont**

See ANTH 064. Cross-listed with: ANTH 064.

Credits: 3.00

**VS 092 - Vermont Field Studies**

Cross-listed with: GEOG 092.

Credits: 3.00

**VS 095 - Introductory Special Topics**

See schedule of courses for specific titles.

Credits: 3.00

**VS 096 - Introductory Special Topics**

See schedule of courses for specific titles.

Credits: 3.00

**VS 123 - The Vermont Political System**

See POLS 123. Prerequisite: POLS 021.

Credits: 3.00

**VS 160 - The Literature of Vermont**

Cross-listed with: ENGS 178.

Credits: 3.00

**VS 184 - Vermont History**

Survey of Vermont history from early times to the present. Prerequisite: Three Hours in History; HST 011 or HST 012 recommended. Cross-listed with: HST 184.

Credits: 3.00

**VS 191 - Internships**

Prerequisite: Nine hours of Vermont Studies; permission of Director of Vermont Studies; Junior/Senior standing.

Credits: 3.00

**VS 192 - Vermont Field Studies**

Prerequisite: Three hours in Geography. Cross-listed with: GEOG 192.

Credits: 3.00

**VS 195 - Intermediate Special Topics**

See schedule of courses for specific titles.

Credits: 3.00

**VS 196 - Intermediate Special Topics**

See schedule of courses for specific titles.

Credits: 3.00

**VS 197 - Readings & Research**

Prerequisite: Declared minor in Vermont Studies.

Credits: 3.00

**VS 198 - Readings and Research**

Prerequisite: Declared minor in Vermont Studies.

Credits: 3.00

**VS 230 - The Vermont Economy**

(See Economics 230, Seminar C.) Prerequisites: EC 170, 171, 172.

Credits: 3.00

**VS 284 - Seminar in Vermont History**

Topical approach to Vermont history through original research utilizing primary sources available at UVM, the Vermont Historical Society, and the Vermont State Archives. Prerequisites: Junior or senior standing, 12 hours of history, including 184 or permission. (Same as HST 284).

Credits: 3.00

**VS 295 - Advanced Special Topics**

See schedule of courses for specific titles. Prerequisite: Advanced undergraduate or graduate standing.

Credits: 3.00

**VS 296 - Advanced Special Topics**

See schedule of courses for specific titles. Prerequisite: Advanced undergraduate or graduate standing.

Credits: 4.00

**VS 297 - Readings & Research**

Prerequisite: Declared minor in Vermont Studies.

Credits: 1.00 to 3.00

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## Courses in Water Resources (WR)

### WR 391 - Master Thesis Rsch

Credit as arranged.

Credits: 1.00 to 12.00



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## Courses in Wildlife & Fisheries Biology (WFB)

### **WFB 074 - Wildlife Conservation**

Historical and contemporary values of wildlife; impacts on habitats and populations; strategies for conservation, allocation, and use. Nonmajors only. Prerequisite: Basic understanding of biological terms and concepts.  
Credits: 3.00

### **WFB 130 - Ornithology**

Taxonomy, classification, identification, morphology, physiology, behavior, and ecology of birds. Prerequisite: BIOL 001, BIOL 002, or equivalent.  
Credits: 3.00

### **WFB 131 - Field Ornithology**

Identification and field studies of birds, emphasizing resident species. Two weeks in summer. Prerequisite: WFB 130 . Preference to WFB majors.  
Credits: 2.00

### **WFB 150 - Wildf Habitat & Pop Measrmt**

Field methods for measuring habitat variables and estimating population parameters. One week in summer. Prerequisites: 131, Forestry 21 or Botany 109, Natural Resources 140.  
Credits: 1.00

### **WFB 161 - Fisheries Biology & Management**

Introduction to freshwater fish, habitats, and life histories. Overview of fishery management techniques and principles, including sampling and assessment methods, stocking, population and habitat manipulation, and regulations. Prerequisites: Biology 1, 2 or equivalent.  
Credits: 4.00



**WFB 174 - Prin of Wildlife Management**

Application of ecology and sociology to the management of wildlife populations and habitat; integration of wildlife management with demands for other resources; consideration of game species, endangered species, and biological diversity.

Prerequisites: Natural Resources 103 or Biology 102 or Botany 160.

Credits: 3.00

**WFB 175 - Wildlife and Society**

Investigates how people's attitudes, institutions, policies, and behaviors have affected wildlife across the North American landscape. Alternate years.

Credits: 3.00

**WFB 176 - Florida Ecology Field Trip**

Major ecosystems and associated wildlife, ranging from north Florida flatwoods to south Florida Everglades. Field trip over spring recess. Prerequisite: WFB 130, WFB 174; Instructor permission. Alternate years.

Credits: 2.00

**WFB 177 - Texas Wildlife Field Trip**

Major ecosystems and associated wildlife of south Texas, including Gulf coast, coastal prairies, lower Rio Grande Valley, and Chihuahuan desert. Field trip over spring recess. Prerequisite: WFB 130; Instructor permission. Alternate years.

Credits: 2.00

**WFB 185 - Special Topics**

Credits: 3.00

**WFB 186 - Special Topics**

Credits: 3.00

**WFB 187 - Undergrad Special Projects**

Individual projects supervised by a faculty member. Projects may involve independent field, laboratory, or library investigations. Formal report required.

Prerequisite: Junior standing; submission of a project prospectus for permission.

Credits: 1.00 to 5.00

**WFB 188 - Undergrad Special Projects**

Individual projects supervised by a faculty member. Projects may involve independent field, laboratory, or library investigations. Formal report required.

Prerequisite: Junior standing; submission of a project prospectus for permission.

Credits: 1.00 to 5.00

**WFB 191 - Wildlife & Fisheries Practicum**

Supervised work experience in the wildlife and fisheries area. Prerequisite: Instructor permission. Credit as arranged.

Credits: 1.00

**WFB 232 - Ichthyology**

Biology of fishes. Focus is on form and function, morphology, physiology, behavior, life history, and ecology of modern fishes. Prerequisites: Biology 1, 2 or equivalent; junior standing. Alternate years. Undergraduate/ graduate credit.

Credits: 3.00

**WFB 271 - Wetlands Wildlife**

Breeding biology, behavior, habitat management, and population ecology of wetland wildlife with emphasis on waterfowl. Prerequisites: WFB 174, NR 103. Undergraduate/ graduate credit.

Credits: 4.00

**WFB 272 - Wetlands Wildlife Laboratory**

Laboratory and field assessment of the ecology and management of wetland habitats and their associated wildlife populations. Prerequisites: Previous or concurrent enrollment in WFB 271 or NR 260. Undergraduate/graduate credit.

Credits: 1.00

**WFB 273 - Terrestrial Wildlife**

Integration of ecological principles, wildlife biology, land use, and human dimensions in wildlife. Emphasis on development and maintenance of terrestrial wildlife habitat, and population regulation of terrestrial species. Prerequisite: 174. Undergraduate/graduate credit.

Credits: 3.00

**WFB 274 - Terrestrial Wildlife Lab**

Laboratory and field experience related to terrestrial species and management of their habitat. Field project required. Prerequisite: Previous or concurrent enrollment in 273. Undergraduate/graduate credit.

Credits: 1.00

**WFB 275 - Wildlife Behavior**

Behavior and social organization of game and nongame species as they pertain to population management. Prerequisites: One year of biology, an ecology course, 74 or 174 recommended. Undergraduate/graduate credit.

Credits: 3.00

**WFB 279 - Marine Ecology**

Structure and function of major marine communities, including open ocean, benthos, coral reefs, and estuaries. Emphasis on unique ecological insights gained in the marine environment. Prerequisites: Biology 1 and 2, an ecology course, or instructor permission. Undergraduate/graduate credit.

Credits: 3.00

**WFB 285 - Advanced Special Topics**

Credits: 4.00

**WFB 286 - Advanced Special Topics**

Credits: 4.00

**WFB 287 - Advanced Special Projects**

Advanced readings and discussions or special field and/or laboratory investigations dealing with a topic beyond the scope of existing formal courses. Prerequisite: Senior standing or permission. Credit arranged. (Not offered for graduate credit.)

Credits: 3.00

**WFB 288 - Advanced Special Projects**

Advanced readings and discussions or special field and/or laboratory investigations dealing with a topic beyond the scope of existing formal courses. Prerequisite: Senior standing or permission. Credit arranged. (Not offered for graduate credit.)

Credits: 2.00

**WFB 299 - Wildlife & Fisheries Honors**

Honors project dealing with wildlife or fisheries biology. Prerequisite: By application only; see program chair. UG only.

Credits: 3.00

**WFB 311 - Ecology of Fishes**

Structure of fish assemblages, zoogeography, morphology, life history strategies, bioenergetics, competition, predation, and fish effect on ecosystems.

Prerequisites: Graduate standing or Instructor permission; NR 140 or STAT 201; an ecology course.

Credits: 3.00

**WFB 352 - Population Dynamics & Modeling**

Modeling and analysis of animal population dynamics, as influenced by environmental, ecological, and management factors; estimation of population size, density, survivorship, reproduction, and migration. Prerequisite: NR 140 or STAT 211; an ecology course.

Credits: 4.00

**WFB 387 - Graduate Special Problems**

Advanced readings or special investigation dealing with a topic beyond the scope of existing formal courses or thesis research, culminating in an acceptable paper.

Prerequisite: Instructor Permission.

Credits: 3.00

**WFB 388 - Graduate Special Problems**

Advanced readings or special investigation dealing with a topic beyond the scope

of existing formal courses or thesis research, culminating in an acceptable paper.

Prerequisite: Instructor Permission.

Credits: 3.00

**WFB 391 - Master's Thesis Research**

Credit as arranged.

Credits: 1.00 to 18.00



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## Courses in Women's & Gender Studies (WGST)

### **WGST 073 - Intro to Women's Studies**

Survey of feminist theory and its application to specific areas of inquiry, including analysis of the intersections among race, class, and gender.

Credits: 3.00

### **WGST 075 - Intro Sexuality/Gender Identity**

Overview of the history, development, and contemporary literature on lesbian, gay, bisexual, transgender, questioning, queer, ally identities as explored through different academic and cultural lenses.

Credits: 3.00

### **WGST 076 - Women in Literature**

Survey of women's literary tradition in English. Focuses on the ways women have written, read, written about, and been represented in 19th and 20th century literature. Cross-listed with: ENGS 042.

Credits: 3.00

### **WGST 078 - History of Costume**

Overview of period costume and its adaptation for the stage. Alternating Falls with THE 042. Cross-listed with: THE 041.

Credits: 3.00

### **WGST 084 - Mothers and Daughters**

Interdisciplinary exploration of historical, social, and cultural definitions of the mother/daughter experience informed by contemporary feminist perspectives.

Credits: 3.00

### **WGST 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**WGST 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**WGST 101 - Women and Society**

(See Sociology 122.) Prerequisite: 73 or three hours of sociology.

Credits: 3.00

**WGST 111 - Wmns Spirit:Challenge Inst Rel**

Women's experience of the sacred and the self in Eastern and Western religious traditions. Analysis of political and cultural structures alienating women from their experience.

Credits: 3.00

**WGST 115 - Studies in Gender & Religion**

Cross-listed with: REL 173. Prerequisite: Three hours in Religion or Instructor permission.

Credits: 3.00

**WGST 122 - 19th Century Women's Writing**

(See English 147.) Prerequisite: Three hours in English or Women's & Gender Studies.

Credits: 3.00

**WGST 141 - Gender and Law**

Feminist jurisprudence and legal theory. Topics include economic consequences of reproduction, sexuality, divorce, custody; sexual harassment, employment discrimination; surrogate motherhood, domestic violence, rape, pornography, prostitution.

Credits: 3.00

**WGST 151 - Feminism:Theories and Issues**

Theories of libertarianism, liberalism, and egalitarianism; application to the analysis and evaluation of social issues of contemporary interest, such as abortion and affirmative action. Prerequisite: One course in Philosophy or Instructor permission. Cross-listed with: PHIL 170.

Credits: 3.00

**WGST 161 - History of Women in U.S.**

Prerequisite: HST 011 or HST 012, or three hours in Women's & Gender Studies. Cross-listed with: HST 182.

Credits: 3.00

**WGST 165 - Women, Society and Culture**

Prerequisite: ANTH 021 or Instructor permission. Cross-listed with: ANTH 172.

Credits: 3.00

**WGST 170 - Gender, Space & Environment**

Prerequisite: Six hours in Geography or Women's & Gender Studies, or Instructor permission. Cross-listed with: GEOG 178.

Credits: 3.00

**WGST 172 - Women and Depression**

The exploration of the impact of gender socialization, sexual oppression, discrimination, self-esteem, and body image on women's mental health in our society.

Credits: 3.00

**WGST 174 - Women, Science & Nature**

The position of women in relation both to science and nature is considered historically, culturally, and in terms of current feminist perspectives.

Credits: 3.00

**WGST 179 - Ecofeminism**

Investigation of the parallel dominations of women and nature, through analysis and reflection on ecofeminist theory, activism, and spirituality. Prerequisite: ENVS 001, ENVS 002 or WGST 073; Sophomore standing. Cross-listed with: ENVS 179.

Credits: 3.00

**WGST 185 - Economics of Gender**

(See Economics 156.) Prerequisites: EC 11, 12 or instructor's permission.

Credits: 3.00

**WGST 191 - Internship**

Approved programs of learning outside the classroom. Students work at local women's agencies, in consultation with faculty sponsors. Prerequisite: A contract must be obtained from and returned to the Women's & Gender Studies Program office during registration; permission of Director of Women's & Gender Studies.

Credits: 3.00

**WGST 192 - Internship**

Approved programs of learning outside the classroom. Students work at local women's agencies, in consultation with faculty sponsors. Prerequisite: A contract must be obtained from and returned to the Women's & Gender Studies Program office during registration; permission of Director of Women's & Gender Studies.

Credits: 3.00

**WGST 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**WGST 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.00

**WGST 201 - Sociology of Reproduction**

(See Sociology 223.) Prerequisite: Six hours of sociology to include one of 29, 122, or 129; or instructor's permission.

Credits: 3.00

**WGST 205 - Women Dev Third Wrld Countries**

(See Sociology 213.) Prerequisite: Six hours of sociology or instructor's permission.

Credits: 3.00

**WGST 271 - Psychology of Women**

(See Psychology 231.) Prerequisite: One psychology course at the 100 level or instructor's permission.

Credits: 3.00

**WGST 273 - Seminar in Feminist Theory**

An interdisciplinary examination of theories accounting for women's position in culture and society. Special emphasis on the relationship between gender, race, class, ethnicity, and sexuality. Prerequisites: 73, six additional hours in Women's & Gender Studies, and admission to the Women's & Gender Studies major or minor program.

Credits: 3.00

**WGST 295 - Advanced Special Topics**

See Schedule of Course for specific titles. UG only.

Credits: 3.00

**WGST 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. UG only.

Credits: 3.00

**WGST 297 - Independent Study**

Selection and development of topic for investigation using assigned faculty member as preceptor. Prerequisite: WGST 073; permission of Director of Women's & Gender Studies.

Credits: 3.00

**WGST 298 - Independent Study**

Selection and development of topic for investigation using assigned faculty member as preceptor. Prerequisite: WGST 073; approval of Director of Women's & Gender Studies.



Credits: 3.00

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## Courses in World Literature (WLIT)

### **WLIT 011 - French Lit in Translation**

Selected topics in French literature. Readings and discussion of representative works in English translation. No knowledge of French required.

Credits: 3.00

### **WLIT 013 - Italian Lit in Translation**

Selected topics in the literature of Italy. Readings and discussion of representational work in English translation. No knowledge of Italian is necessary.

Credits: 3.00

### **WLIT 014 - Spanish Lit in Translation**

Selected topics in Spanish literature. Readings and discussion of representative works in English translation. No knowledge of Spanish required.

Credits: 3.00

### **WLIT 015 - Span-Amer Lit in Translation**

Selected topics in Spanish-American literature. Readings and discussion of representative works in English translation. No knowledge of Spanish required.

Credits: 3.00

### **WLIT 016 - Latino Writers US:Contemp Pers**

Study of texts written by Latinos since the 1960s. Topics: construction of "ethnic identities," representation of race/gender relations; writers and their communities.

Credits: 3.00

### **WLIT 017 - German Lit in Translation**

Topics such as German author(s), genre, literary movement, or theme such as Goethe, proverbs, Expressionism, Faust, Holocaust, or the German film.

Credits: 3.00

**WLIT 018 - Russian Lit in Translation**

Topics such as Russian author(s) (e.g. Dostoevsky, Tolstoy), genre (e.g. the Russian novel), literary school (e.g. Russian Formalism), or period (19th or 20th century literature).

Credits: 3.00

**WLIT 024 - Myths & Legends of Trojan War**

Homeric epics, Virgil's Aeneid, selections from tragedy dealing with the Trojan War and Greco-Roman cultural identity. Examples from art and archaeology supplement the literary theme. Cross-listed with: CLAS 024.

Credits: 3.00

**WLIT 035 - The End of the Roman Republic**

Participants describe the Republic's end: Caesar justifies conquest and civil war; Catullus and Sallust reveal a society in turmoil; Cicero documents first-century politics: political gangs, bribery, and violence. Cross-listed with: CLAS 035.

Credits: 3.00

**WLIT 037 - Early Roman Emp:Lit&Translat'n**

Poetry and prose in the first century C.E. (the age of Augustus, Nero, Trajan), emphasizing varieties and limitations of political and literary freedom. Cross-listed with: CLAS 037.

Credits: 3.00

**WLIT 042 - Mythology**

Cross-listed with CLAS 042.

Credits: 3.00

**WLIT 095 - Special Topics**

Special topics in literary studies. Individual courses might include comparative study of particular literary genres, periods, authors or works from varied international literatures.

Credits: 3.00

**WLIT 096 - Special Topics**

Special topics in literary studies. Individual courses might include comparative study of particular literary genres, periods, authors or works from varied international literatures.

Credits: 3.00

**WLIT 110 - Classical Chinese Lit in Trans**

Selected topics in Chinese Literature. Reading and discussion are in English. No knowledge of Chinese language is required.

Credits: 3.00

**WLIT 111 - French Lit in Translation**

Credits: 3.00

**WLIT 112 - Francophone Lit in Translation**

Selected topics in the literature of the French-speaking world (excluding France). Readings and discussion of representative works in English translation. No knowledge of French required. Prerequisite: Sophomore standing or Instructor permission.

Credits: 3.00

**WLIT 113 - Italian Lit in Translation**

Readings and discussion of representational work in English translation. No knowledge of Italian is necessary. Prerequisite: Sophomore standing or instructor permission.

Credits: 3.00

**WLIT 114 - Spanish Lit in Translation**

Selected topics in Spanish literature. Readings and discussion of representative works in English translation. No knowledge of Spanish required. Prerequisite: Sophomore standing or Instructor permission.

Credits: 3.00

**WLIT 115 - Span-Amer Lit in Translation**

Selected topics in Spanish-American literature. Readings and discussion of representative works in English translation. No knowledge of Spanish required. Prerequisite: Sophomore standing or Instructor permission.

Credits: 3.00

**WLIT 116 - Latino Writers US:Contemp Pers**

Study of texts written by Latinos since the 1960s. Topics: construction of "ethnic identities," representation of race/gender relations; writers and their communities. Prerequisite: Sophomore standing or Instructor permission.

Credits: 3.00

**WLIT 117 - German Lit in Translation**

Topics such as German author(s), genre, literary movement, or theme such as Goethe, proverbs, Expressionism, Faust, Holocaust, or the German film. Prerequisite: Sophomore standing; Instructor permission.

Credits: 3.00

**WLIT 118 - Russian Lit in Translation**

Topics such as Russian author(s) (e.g. Dostoevsky, Tolstoy), genre (e.g. the Russian novel), literary school (e.g. Russian Formalism), or period (19th or 20th century literature). Prerequisite: Sophomore standing.

Credits: 3.00

**WLIT 122 - Dante's Comedy**

A study of Dante's Comedy in Modern English translation.

Credits: 3.00

**WLIT 145 - Comparative Epic**

Prerequisite: Sophomore standing. Cross-listed with: CLAS 145.

Credits: 3.00

**WLIT 154 - Stories and Histories**

Prerequisite: Sophomore standing; three hours in Classics.

Credits: 3.00

**WLIT 155 - Ancient Epic**

Homer, Apollonius, and Vergil, as well as readings selected from other Greek and Latin epic (including epyllia) and didactic poetry. Prerequisite: Sophomore standing. Cross-listed with: CLAS 155.

Credits: 3.00

**WLIT 156 - Greek & Roman Satiric Spirit**

Comedy, satire, epigram and prose fantasy as vehicles for political, social, and literary criticism in the Greco-Roman world. Prerequisite: Sophomore standing. Cross-listed with: CLAS 156.

Credits: 3.00

**WLIT 195 - Special Topics**

Special topics in literary studies. Individual courses might include comparative study of particular literary genres, periods, authors or works from varied international literatures. Prerequisite: Sophomore standing or Instructor permission.

Credits: 3.00

**WLIT 196 - Special Topics**

Special topics in literary studies. Individual courses might include comparative study of particular literary genres, periods, authors or works from varied international literatures. Prerequisite: Sophomore standing or Instructor permission.

Credits: 3.00

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[ALANA U.S. Ethnic Studies \(Minor\)](#)

Affiliated with: ALANA U.S. Ethnic Studies Program, College of Arts and Sciences

[Accounting \(Minor\)](#)

Affiliated with: School of Business Administration

[African Studies \(Minor\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

[Agricultural and Resource Entrepreneurship \(B.S.\)](#)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

[Agricultural and Resource Entrepreneurship \(Minor\)](#)

Affiliated with: Community Development and Applied Economics Department, College of

Agriculture and Life Sciences

Anatomy and Neurobiology (M.S.)

Affiliated with: Anatomy and Neurobiology Department, Graduate College

Anatomy and Neurobiology (Ph.D.)

Affiliated with: Anatomy and Neurobiology Department, Graduate College

Animal Science (A.M.P.)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences, Graduate College

Animal Science (M.S.)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences, Graduate College

Animal Science (Minor)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

Animal Science: Dairy Production/Farm Management (B.S.)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

Animal Science: Equine Science (B.S.)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

Animal Science: General Animal Science (B.S.)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

Animal Science: Preveterinary/Preprofessional Science (B.S.)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

Animal, Nutrition and Food Science (Ph.D.)

Affiliated with: Nutrition and Food Sciences Department, Animal Science Department, College of Agriculture and Life Sciences, Graduate College

Anthropology (B.A.)

Affiliated with: Anthropology Department, College of Arts and Sciences

Applied Design (Minor)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

Archaeology (Minor)

Affiliated with: Anthropology Department, College of Arts and Sciences

Art History (B.A.)

Affiliated with: Art Department, College of Arts and Sciences

Art History (Minor)

Affiliated with: Art Department, College of Arts and Sciences

Art: Studio Art (B.A.)

Affiliated with: Art Department, College of Arts and Sciences

Art: Studio Art (Minor)

Affiliated with: Art Department, College of Arts and Sciences

Asian Studies (B.A.)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

Asian Studies (Minor)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

Athletic Training Education (B.S.)

Affiliated with: Education Department, College of Education and Social Services



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#### Biochemistry (B.S.)

Affiliated with: Biochemistry Program, College of Agriculture and Life Sciences, College of Arts and Sciences

#### Biochemistry (M.S.)

Affiliated with: Biochemistry Department, College of Agriculture and Life Sciences, Graduate College

#### Biochemistry (Ph.D.)

Affiliated with: Biochemistry Department, College of Agriculture and Life Sciences, Graduate College

#### Biological Science, Integrated (B.S.)

Affiliated with: Biology Department, Biological Science, College of Agriculture and Life Sciences, College of Arts and Sciences

Biology (A.M.P.)

Affiliated with: Biology Department, College of Arts and Sciences, Graduate College

Biology (B.A.)

Affiliated with: Biology Department, College of Arts and Sciences

Biology (M.A.T.)

Affiliated with: Biology Department, Graduate College

Biology (M.S.)

Affiliated with: Biology Department, Graduate College

Biology (M.S.T.)

Affiliated with: Biology Department, Graduate College

Biology (Minor)

Affiliated with: Biology Department, College of Arts and Sciences

Biology (Ph.D.)

Affiliated with: Biology Department, Graduate College

Biomedical Engineering (M.S.)

Affiliated with: Mechanical Engineering Department, Electrical and Computer Engineering Department, College of Engineering and Mathematics, Graduate College

Biosstatistics (M.S.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics, Graduate College

Botany (B.A.)

Affiliated with: Botany Department, College of Arts and Sciences

Botany (M.A.T.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences, Graduate College

Botany (M.S.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences, Graduate College

Botany (M.S.T.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences, Graduate College

Botany (Minor)

Affiliated with: Botany Department, College of Agriculture and Life Sciences, College of Arts and Sciences

Botany (Ph.D.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences, Graduate

College

Botany: Ecology and Evolutionary Biology of Plants (B.S.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences

Botany: General Botany (B.S.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences

Botany: Plant Molecular Biology (B.S.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences

Business Administration (B.S.)

Affiliated with: School of Business Administration

Business Administration (M.B.A.)

Affiliated with: Graduate College, School of Business Administration

Business Administration (Minor)

Affiliated with: School of Business Administration

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#### [Canadian Studies \(B.A.\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

#### [Canadian Studies \(Minor\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

#### [Cell and Molecular Biology \(M.S.\)](#)

Affiliated with: Graduate College

#### [Cell and Molecular Biology \(Ph.D.\)](#)

Affiliated with: Graduate College

#### [Chemistry \(B.S.\)](#)

Affiliated with: Chemistry Department, College of Arts and Sciences

#### [Chemistry \(M.A.T.\)](#)

Affiliated with: Chemistry Department, College of Arts and Sciences, Graduate College

Chemistry (M.S.)

Affiliated with: Chemistry Department, College of Arts and Sciences, Graduate College

Chemistry (M.S.T.)

Affiliated with: Chemistry Department, College of Arts and Sciences, Graduate College

Chemistry (Minor)

Affiliated with: Chemistry Department, College of Arts and Sciences

Chemistry (Ph.D.)

Affiliated with: Chemistry Department, College of Arts and Sciences, Graduate College

Chemistry: Biomolecular (B.A.)

Affiliated with: Chemistry Department, College of Arts and Sciences

Chemistry: Environmental (B.A.)

Affiliated with: Chemistry Department, College of Arts and Sciences

Chemistry: General Chemistry (B.A.)

Affiliated with: Chemistry Department, College of Arts and Sciences

Chinese (Minor)

Affiliated with: Chinese Language Program, College of Arts and Sciences

Civil Engineering: Environmental (B.S.)

Affiliated with: Civil and Environmental Engineering Department, College of Engineering and Mathematics

Civil Engineering: General (B.S.)

Affiliated with: Civil and Environmental Engineering Department, College of Engineering and Mathematics

Civil and Environmental Engineering (M.S.)

Affiliated with: Civil and Environmental Engineering Department, College of Engineering and Mathematics, Graduate College

Civil and Environmental Engineering (Ph.D.)

Affiliated with: Civil and Environmental Engineering Department, College of Engineering and Mathematics, Graduate College

Classical Civilization (B.A.)

Affiliated with: Classics Department, College of Arts and Sciences

Classical Civilization (Minor)

Affiliated with: Classics Department, College of Arts and Sciences

Communication Sciences (B.A.)

Affiliated with: Communication Sciences Department, College of Arts and Sciences

Communication Sciences (M.S.)

Affiliated with: Communication Sciences Department, College of Arts and Sciences, Graduate College

Communication Sciences (Minor)

Affiliated with: Communication Sciences Department, College of Arts and Sciences

Community Development and Applied Economics (M.S.)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences, Graduate College

Community and International Development (B.S.)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

Community and International Development (Minor)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

Computer Science (A.M.P.)

Affiliated with: Computer Science Department, College of Engineering and Mathematics, Graduate College

Computer Science (B.A.)

Affiliated with: Computer Science Department, College of Arts and Sciences

Computer Science (B.S.)

Affiliated with: Computer Science Department, College of Engineering and Mathematics

Computer Science (M.S.)

Affiliated with: Computer Science Department, College of Engineering and Mathematics, Graduate College

Computer Science (Minor)

Affiliated with: Computer Science Department, College of Arts and Sciences, College of Engineering and Mathematics

Computer Science (Ph.D.)

Affiliated with: Computer Science Department, College of Engineering and Mathematics, Graduate College

Computer Science: Computer Science and Information Systems (B.S.)

Affiliated with: Computer Science Department, College of Engineering and Mathematics

Consumer Affairs (Minor)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

Consumer and Advertising (Minor)

Affiliated with: Community Development and Applied Economics Department, College of

Agriculture and Life Sciences

Counseling (M.S.)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services, Graduate College

Counseling (Post-Master's Certificate)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

Curriculum and Instruction (M.Ed.)

Affiliated with: Education Department, College of Education and Social Services, Graduate College

Curriculum and Instruction: Accelerated Licensure (A.M.P.)

Affiliated with: College of Education and Social Services, Graduate College

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#### Dietetics (B.S.)

Affiliated with: Nutrition and Food Sciences Department, College of Agriculture and Life Sciences



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#### [Ecological Agriculture \(B.S.\)](#)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life Sciences

#### [Economics \(B.A.\)](#)

Affiliated with: Economics Department, College of Arts and Sciences

#### [Economics \(Minor\)](#)

Affiliated with: Economics Department, College of Arts and Sciences

#### [Education: Individually Designed Program \(B.S.\)](#)

Affiliated with: Education Department, College of Education and Social Services

#### [Educational Leadership \(M.Ed.\)](#)

Affiliated with: Education Department, Graduate College

Educational Leadership (Post-Master's Certificate)

Affiliated with: Education Department, College of Education and Social Services

Educational Leadership and Policy Studies (Ed.D.)

Affiliated with: Education Department, College of Education and Social Services, Graduate College

Educational Studies (M.Ed.)

Affiliated with: Education Department, College of Education and Social Services, Graduate College

Electrical Engineering (M.S.)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics, Graduate College

Electrical Engineering (Minor)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

Electrical Engineering (Ph.D.)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics, Graduate College

Electrical Engineering: Biomedical Elective Concentration (B.S.)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

Electrical Engineering: Computer Elective Concentration (B.S.)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

Electrical Engineering: General Elective Concentration (B.S.)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

Electrical Engineering: Premedical Elective Concentration (B.S.)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

Engineering Management: Civil Engineering (B.S.)

Affiliated with: Engineering Management Program, College of Engineering and Mathematics

Engineering Management: Electrical Engineering (B.S.)

Affiliated with: Engineering Management Program, College of Engineering and Mathematics

Engineering Management: Mechanical Engineering (B.S.)

Affiliated with: Engineering Management Program, College of Engineering and Mathematics

English (B.A.)

Affiliated with: English Department, College of Arts and Sciences

English (M.A.)

Affiliated with: English Department, College of Arts and Sciences, Graduate College

English (M.A.T.)

Affiliated with: English Department, Graduate College

English (Minor)

Affiliated with: English Department, College of Arts and Sciences

Environmental Engineering (B.S.)

Affiliated with: Civil and Environmental Engineering Department, College of Engineering and Mathematics

Environmental Sciences [CAL] (B.S.)

Affiliated with: Environmental Sciences Program, College of Agriculture and Life Sciences

Environmental Sciences [CAS] (B.S.)

Affiliated with: Environmental Sciences Program, Biology Department, Chemistry Department, Geology Department, College of Arts and Sciences

Environmental Sciences [RSEN] (B.S.)

Affiliated with: Environmental Sciences Program, The Rubenstein School of Environment and Natural Resources

Environmental Sciences: Biology (Minor)

Affiliated with: Biology Department, College of Arts and Sciences

Environmental Sciences: Chemistry (Minor)

Affiliated with: Chemistry Department, College of Arts and Sciences

Environmental Sciences: Geology (Minor)

Affiliated with: Geology Department, College of Arts and Sciences

Environmental Studies [CAL] (B.S.)

Affiliated with: Environmental Program, College of Agriculture and Life Sciences

Environmental Studies [CAL] (Minor)

Affiliated with: Environmental Program, College of Agriculture and Life Sciences

Environmental Studies [CAS] (B.A.)

Affiliated with: Environmental Program, College of Arts and Sciences

Environmental Studies [CAS] (Minor)

Affiliated with: Environmental Program, College of Arts and Sciences

Environmental Studies [RSEN] (B.S.)

Affiliated with: Environmental Program, The Rubenstein School of Environment and

Natural Resources

Environmental Studies [RSENR] (Minor)

Affiliated with: Environmental Program, The Rubenstein School of Environment and Natural Resources

European Studies (B.A.)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

European Studies (Minor)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

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#### Film and Television Studies (B.A.)

Affiliated with: English Department, College of Arts and Sciences

#### Film and Television Studies (Minor)

Affiliated with: English Department, College of Arts and Sciences

#### Forestry (B.S.)

Affiliated with: Forestry Program, The Rubenstein School of Environment and Natural Resources

#### Forestry (Minor)

Affiliated with: Forestry Program, The Rubenstein School of Environment and Natural Resources

#### French (B.A.)

Affiliated with: Romance Languages Department, College of Arts and Sciences

French (M.A.)

Affiliated with: Romance Languages Department, Graduate College

French (M.A.T.)

Affiliated with: Romance Languages Department, Graduate College

French (Minor)

Affiliated with: Romance Languages Department, College of Arts and Sciences

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#### [Geography \(B.A.\)](#)

Affiliated with: Geography Department, College of Arts and Sciences

#### [Geography \(M.A.\)](#)

Affiliated with: Geography Department, Graduate College

#### [Geography \(M.A.T.\)](#)

Affiliated with: Geography Department, Graduate College

#### [Geography \(Minor\)](#)

Affiliated with: Geography Department, College of Arts and Sciences

#### [Geology \(B.A.\)](#)

Affiliated with: Geology Department, College of Arts and Sciences

#### [Geology \(B.S.\)](#)

Affiliated with: Geology Department, College of Arts and Sciences

Geology (M.A.T.)

Affiliated with: Geology Department, College of Arts and Sciences, Graduate College

Geology (M.S.)

Affiliated with: Geology Department, Graduate College

Geology (M.S.T.)

Affiliated with: Geology Department, Graduate College

Geology (Minor)

Affiliated with: Geology Department, College of Arts and Sciences

German (B.A.)

Affiliated with: German and Russian Department, College of Arts and Sciences

German (M.A.)

Affiliated with: German and Russian Department, Graduate College

German (M.A.T.)

Affiliated with: German and Russian Department, Graduate College

German (Minor)

Affiliated with: German and Russian Department, College of Arts and Sciences

Gerontology (Minor)

Affiliated with: Sociology Department, College of Arts and Sciences

Greek (B.A.)

Affiliated with: Classics Department, College of Arts and Sciences

Greek Language and Literature (Minor)

Affiliated with: Classics Department, College of Arts and Sciences

Greek and Latin (M.A.)

Affiliated with: Classics Department, Graduate College

Greek and Latin (M.A.T.)

Affiliated with: Classics Department, Graduate College





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#### [Higher Education and Student Affairs Administration \(M.Ed.\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services, Graduate College

#### [Historic Preservation \(M.S.\)](#)

Affiliated with: History Department, Graduate College

#### [History \(A.M.P.\)](#)

Affiliated with: History Department, Graduate College

#### [History \(B.A.\)](#)

Affiliated with: History Department, College of Arts and Sciences

#### [History \(M.A.\)](#)

Affiliated with: History Department, Graduate College

History (M.A.T.)

Affiliated with: History Department, Graduate College

History (Minor)

Affiliated with: History Department, College of Arts and Sciences

Holocaust Studies (Minor)

Affiliated with: Holocaust Studies Program, College of Arts and Sciences

Human Development and Family Studies (B.S.)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

Human Development and Family Studies (Minor)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

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[Individual Design \(B.A.\)](#)

Affiliated with: College of Arts and Sciences

[Individual Design \(Minor\)](#)

Affiliated with: College of Arts and Sciences

[Integrated Studies \(Post-Master's Certificate\)](#)

Affiliated with: College of Education and Social Services

[Interdisciplinary \(M.Ed.\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services, Graduate College

[Italian \(Minor\)](#)

Affiliated with: Romance Languages Department, College of Arts and Sciences

Italian Studies (B.A.)

Affiliated with: Romance Languages Department, College of Arts and Sciences

Italian Studies (Minor)

Affiliated with: Romance Languages Department, College of Arts and Sciences

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#### Japanese (Minor)

Affiliated with: Japanese Language Program, College of Arts and Sciences

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[Latin \(B.A.\)](#)

Affiliated with: Classics Department, College of Arts and Sciences

[Latin American Studies \(B.A.\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

[Latin American Studies \(Minor\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

[Latin Language and Literature \(Minor\)](#)

Affiliated with: Classics Department, College of Arts and Sciences

[Linguistic Anthropology \(Minor\)](#)

Affiliated with: Anthropology Department, College of Arts and Sciences

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#### Materials Science (A.M.P.)

Affiliated with: Physics Department, Mechanical Engineering Department, Chemistry Department, College of Engineering and Mathematics, Graduate College

#### Materials Science (M.S.)

Affiliated with: Materials Science Program, College of Engineering and Mathematics, Graduate College

#### Materials Science (Ph.D.)

Affiliated with: Materials Science Program, College of Engineering and Mathematics, Graduate College

#### Mathematical Sciences (Ph.D.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics, Graduate College



Mathematics (B.A.)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences

Mathematics (B.S.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics

Mathematics (M.A.T.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics, Graduate College

Mathematics (M.S.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics, Graduate College

Mathematics (M.S.T.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics, Graduate College

Mathematics: Applied (Minor)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences, College of Engineering and Mathematics

Mathematics: Applied and Interdisciplinary Mathematics (B.A.)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences

Mathematics: Pure (Minor)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences, College of Engineering and Mathematics

Mathematics: Statistics (B.A.)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences

Mathematics: Statistics (B.S.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics

Mathematics: Statistics and Biostatistics (A.M.P.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics, Graduate College

Mechanical Engineering (A.M.P.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics, Graduate College

Mechanical Engineering (M.S.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics, Graduate College

Mechanical Engineering (Ph.D.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics, Graduate College

Mechanical Engineering: Biomedical (B.S.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics

Mechanical Engineering: General (B.S.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics

Mechanical Engineering: Premedical (B.S.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics

Medical Laboratory Science (B.S.)

Affiliated with: Medical Laboratory and Radiation Sciences Department, College of Nursing and Health Sciences

Microbiology (B.S.)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences

Microbiology (Minor)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences

Microbiology and Molecular Genetics (A.M.P.)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences, Graduate College

Microbiology and Molecular Genetics (M.S.)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences, Graduate College

Microbiology and Molecular Genetics (Ph.D.)

Affiliated with: Microbiology and Molecular Genetics Department, Graduate College

Middle East Studies (Minor)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

Molecular Genetics (B.S.)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences

Molecular Genetics (Minor)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences

Molecular Physiology and Biophysics (M.S.)

Affiliated with: Molecular Physiology and Biophysics Department, Graduate College

Molecular Physiology and Biophysics (Ph.D.)

Affiliated with: Molecular Physiology and Biophysics Department, Graduate College

Music (B.A.)

Affiliated with: Music Department, College of Arts and Sciences

Music (Minor)

Affiliated with: Music Department, College of Arts and Sciences

Music Performance (B.M.)

Affiliated with: Music Department, College of Arts and Sciences

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#### Natural Resources (Ph.D.)

Affiliated with: Natural Resources Program, Graduate College, The Rubenstein School of Environment and Natural Resources

#### Natural Resources: Aquatic Ecology and Watershed Science (M.S.)

Affiliated with: Natural Resources Program, Graduate College, The Rubenstein School of Environment and Natural Resources

#### Natural Resources: Environment, Society and Public Affairs (M.S.)

Affiliated with: Natural Resources Program, Graduate College, The Rubenstein School of Environment and Natural Resources

#### Natural Resources: Environmental Thought and Culture (M.S.)

Affiliated with: Natural Resources Program, Graduate College, The Rubenstein School of Environment and Natural Resources

Natural Resources: Forestry (M.S.)

Affiliated with: Natural Resources Program, Graduate College, The Rubenstein School of Environment and Natural Resources

Natural Resources: Integrated Natural Resources (B.S.)

Affiliated with: Natural Resources Program, The Rubenstein School of Environment and Natural Resources

Natural Resources: Resource Ecology (B.S.)

Affiliated with: Natural Resources Program, The Rubenstein School of Environment and Natural Resources

Natural Resources: Resource Planning (B.S.)

Affiliated with: Natural Resources Program, The Rubenstein School of Environment and Natural Resources

Natural Resources: Wildlife Biology (M.S.)

Affiliated with: Natural Resources Program, Graduate College, The Rubenstein School of Environment and Natural Resources

Nuclear Medicine Technology (B.S.)

Affiliated with: Medical Laboratory and Radiation Sciences Department, College of Nursing and Health Sciences

Nursing (A.M.P.)

Affiliated with: Nursing Department, College of Nursing and Health Sciences, Graduate College

Nursing (B.S.)

Affiliated with: Nursing Department, College of Nursing and Health Sciences

Nursing (M.S.)

Affiliated with: Nursing Department, College of Nursing and Health Sciences, Graduate College

Nursing (for Registered Nurses) (B.S.)

Affiliated with: Nursing Department, College of Nursing and Health Sciences

Nutrition and Food Sciences (B.S.)

Affiliated with: Nutrition and Food Sciences Department, College of Agriculture and Life Sciences

Nutrition and Food Sciences (M.S.)

Affiliated with: Nutrition and Food Sciences Department, College of Agriculture and Life Sciences, Graduate College

Nutrition and Food Sciences (Minor)

Affiliated with: Nutrition and Food Sciences Department, College of Agriculture and Life Sciences

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[Pathology \(M.S.\)](#)

Affiliated with: Pathology Department, Graduate College

[Pharmacology \(M.S.\)](#)

Affiliated with: Pharmacology Department, Graduate College

[Pharmacology \(Ph.D.\)](#)

Affiliated with: Pharmacology Department, Graduate College

[Philosophy \(B.A.\)](#)

Affiliated with: Philosophy Department, College of Arts and Sciences

[Philosophy \(Minor\)](#)

Affiliated with: Philosophy Department, College of Arts and Sciences

[Physical Therapy \(D.P.T.\)](#)

Affiliated with: Physical Therapy Department, College of Nursing and Health Sciences, Graduate College

Physics (A.M.P.)

Affiliated with: Physics Department, College of Arts and Sciences, Graduate College

Physics (B.A.)

Affiliated with: Physics Department, College of Arts and Sciences

Physics (B.S.)

Affiliated with: Physics Department, College of Arts and Sciences

Physics (M.A.T.)

Affiliated with: Physics Department, College of Arts and Sciences, Graduate College

Physics (M.S.)

Affiliated with: Physics Department, Graduate College

Physics (M.S.T.)

Affiliated with: Physics Department, Graduate College

Physics (Minor)

Affiliated with: Physics Department, College of Arts and Sciences

Plant and Soil Science (M.S.)

Affiliated with: Plant and Soil Science Department, Graduate College

Plant and Soil Science (Minor)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life Sciences

Plant and Soil Science (Ph.D.)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life Sciences, Graduate College

Political Science (B.A.)

Affiliated with: Political Science Department, College of Arts and Sciences

Political Science (Minor)

Affiliated with: Political Science Department, College of Arts and Sciences

Psychology (B.A.)

Affiliated with: Psychology Department, College of Arts and Sciences

Psychology (M.A.)

Affiliated with: Psychology Department, Graduate College

Psychology (Minor)

Affiliated with: Psychology Department, College of Arts and Sciences

Psychology (Ph.D.)



Affiliated with: Psychology Department, College of Arts and Sciences, Graduate College

Psychology: Biobehavioral (B.S.)

Affiliated with: Psychology Department, College of Arts and Sciences

Psychology: Traditional (B.S.)

Affiliated with: Psychology Department, College of Arts and Sciences

Public Administration (A.M.P.)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences, Graduate College

Public Administration (M.P.A.)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences, Graduate College

Public Communication (B.S.)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

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#### [Radiation Therapy \(B.S.\)](#)

Affiliated with: Medical Laboratory and Radiation Sciences Department, College of Nursing and Health Sciences

#### [Reading and Language Arts \(M.Ed.\)](#)

Affiliated with: Education Department, Graduate College

#### [Recreation Management \(Minor\)](#)

Affiliated with: Recreation Management Program, The Rubenstein School of Environment and Natural Resources

#### [Recreation Management: Private Outdoor Recreation and Tourism \(B.S.\)](#)

Affiliated with: Recreation Management Program, The Rubenstein School of Environment and Natural Resources

Recreation Management: Public Outdoor Recreation (B.S.)

Affiliated with: Recreation Management Program, The Rubenstein School of Environment and Natural Resources

Religion (B.A.)

Affiliated with: Religion Department, College of Arts and Sciences

Religion (Minor)

Affiliated with: Religion Department, College of Arts and Sciences

Russian (B.A.)

Affiliated with: German and Russian Department, College of Arts and Sciences

Russian (Minor)

Affiliated with: German and Russian Department, College of Arts and Sciences

Russian/East European Studies (B.A.)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

Russian/East European Studies (Minor)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

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#### [Self-Designed Major \(B.S.\)](#)

Affiliated with: College of Agriculture and Life Sciences

#### [Social Anthropology \(Minor\)](#)

Affiliated with: Anthropology Department, College of Arts and Sciences

#### [Social Work \(B.S.\)](#)

Affiliated with: Social Work Department, College of Education and Social Services

#### [Social Work \(M.S.W.\)](#)

Affiliated with: Social Work Department, Graduate College

#### [Sociology \(B.A.\)](#)

Affiliated with: Sociology Department, College of Arts and Sciences

#### [Sociology \(Minor\)](#)

Affiliated with: Sociology Department, College of Arts and Sciences

Spanish (B.A.)

Affiliated with: Romance Languages Department, College of Arts and Sciences

Spanish (Minor)

Affiliated with: Romance Languages Department, College of Arts and Sciences

Special Education (M.Ed.)

Affiliated with: Education Department, Integrated Professional Studies Department, College of Education and Social Services, Graduate College

Special Education (Minor)

Affiliated with: Education Department, College of Education and Social Services

Special Education (Post-Master's Certificate)

Affiliated with: Integrated Professional Studies Department, Education Department, College of Education and Social Services

Speech (Minor)

Affiliated with: Theatre Department, College of Arts and Sciences

Statistics (M.S.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics, Graduate College

Statistics (Minor)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences, College of Engineering and Mathematics

Sustainable Agriculture (Minor)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life Sciences

Sustainable Landscape Horticulture (B.S.)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life Sciences

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[Teacher Education: Art Education \(K-12\) \(B.S.\)](#)

Affiliated with: Education Department, College of Education and Social Services

[Teacher Education: Early Childhood Education \(PreK-3\) \(B.S.\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

[Teacher Education: Early Childhood Special Education \(Birth-Age 5\) \(B.S.\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

[Teacher Education: Elementary Education \(K-6\) \(B.S.\)](#)

Affiliated with: Education Department, College of Education and Social Services

[Teacher Education: Family and Consumer Sciences Education \(7-12\) \(B.S.\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

Teacher Education: Middle Level Education (5-9) (B.S.)

Affiliated with: Education Department, College of Education and Social Services

Teacher Education: Music Education (K-12) (B.S.)

Affiliated with: Education Department, College of Education and Social Services

Teacher Education: Physical Education (K-12) (B.S.)

Affiliated with: Education Department, College of Education and Social Services

Teacher Education: Secondary Education (7-12) (B.S.)

Affiliated with: Education Department, College of Education and Social Services

Teacher Preparation (Postbaccalaureate Certificate)

Affiliated with: Education Department, Integrated Professional Studies Department, College of Education and Social Services

Theatre (B.A.)

Affiliated with: Theatre Department, College of Arts and Sciences

Theatre (Minor)

Affiliated with: Theatre Department, College of Arts and Sciences



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#### [Vermont Studies \(Minor\)](#)

Affiliated with: Vermont Studies Program, College of Arts and Sciences

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[Wildlife Biology \(Minor\)](#)

Affiliated with: Wildlife and Fisheries Biology Program, The Rubenstein School of Environment and Natural Resources

[Wildlife and Fisheries Biology: Fisheries Biology \(B.S.\)](#)

Affiliated with: Wildlife and Fisheries Biology Program, The Rubenstein School of Environment and Natural Resources

[Wildlife and Fisheries Biology: Wildlife Biology \(B.S.\)](#)

Affiliated with: Wildlife and Fisheries Biology Program, The Rubenstein School of Environment and Natural Resources

[Women's and Gender Studies \(B.A.\)](#)

Affiliated with: Women's and Gender Studies Program, College of Arts and Sciences

Women's and Gender Studies (Minor)

Affiliated with: Women's and Gender Studies Program, College of Arts and Sciences

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#### Zoology (B.A.)

Affiliated with: Biology Department, College of Arts and Sciences

#### Zoology (B.S.)

Affiliated with: Biology Department, College of Arts and Sciences

#### Zoology (Minor)

Affiliated with: Biology Department, College of Arts and Sciences

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### [Agricultural and Resource Entrepreneurship \(B.S.\)](#)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

### [Animal Science: Dairy Production/Farm Management \(B.S.\)](#)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

### [Animal Science: Equine Science \(B.S.\)](#)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

### [Animal Science: General Animal Science \(B.S.\)](#)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

### [Animal Science: Preveterinary/Preprofessional Science \(B.S.\)](#)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences



Anthropology (B.A.)

Affiliated with: Anthropology Department, College of Arts and Sciences

Art History (B.A.)

Affiliated with: Art Department, College of Arts and Sciences

Art: Studio Art (B.A.)

Affiliated with: Art Department, College of Arts and Sciences

Asian Studies (B.A.)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

Athletic Training Education (B.S.)

Affiliated with: Education Department, College of Education and Social Services

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### [Biochemistry \(B.S.\)](#)

Affiliated with: Biochemistry Program, College of Agriculture and Life Sciences, College of Arts and Sciences

### [Biological Science, Integrated \(B.S.\)](#)

Affiliated with: Biological Science, Biology Department, College of Agriculture and Life Sciences, College of Arts and Sciences

### [Biology \(B.A.\)](#)

Affiliated with: Biology Department, College of Arts and Sciences

### [Botany \(B.A.\)](#)

Affiliated with: Botany Department, College of Arts and Sciences

### [Botany: Ecology and Evolutionary Biology of Plants \(B.S.\)](#)

Affiliated with: Botany Department, College of Agriculture and Life Sciences

Botany: General Botany (B.S.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences

Botany: Plant Molecular Biology (B.S.)

Affiliated with: Botany Department, College of Agriculture and Life Sciences

Business Administration (B.S.)

Affiliated with: School of Business Administration

Business Administration (M.B.A.)

Affiliated with: Graduate College, School of Business Administration

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### [Canadian Studies \(B.A.\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

### [Chemistry \(B.S.\)](#)

Affiliated with: Chemistry Department, College of Arts and Sciences

### [Chemistry: Biomolecular \(B.A.\)](#)

Affiliated with: Chemistry Department, College of Arts and Sciences

### [Chemistry: Environmental \(B.A.\)](#)

Affiliated with: Chemistry Department, College of Arts and Sciences

### [Chemistry: General Chemistry \(B.A.\)](#)

Affiliated with: Chemistry Department, College of Arts and Sciences

### [Civil Engineering: Environmental \(B.S.\)](#)

Affiliated with: Civil and Environmental Engineering Department, College of Engineering and Mathematics

Civil Engineering: General (B.S.)

Affiliated with: Civil and Environmental Engineering Department, College of Engineering and Mathematics

Classical Civilization (B.A.)

Affiliated with: Classics Department, College of Arts and Sciences

Communication Sciences (B.A.)

Affiliated with: Communication Sciences Department, College of Arts and Sciences

Community and International Development (B.S.)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

Computer Science (B.A.)

Affiliated with: Computer Science Department, College of Arts and Sciences

Computer Science (B.S.)

Affiliated with: Computer Science Department, College of Engineering and Mathematics

Computer Science: Computer Science and Information Systems (B.S.)

Affiliated with: Computer Science Department, College of Engineering and Mathematics

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### [Dietetics \(B.S.\)](#)

Affiliated with: Nutrition and Food Sciences Department, College of Agriculture and Life Sciences

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### [Ecological Agriculture \(B.S.\)](#)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life Sciences

### [Economics \(B.A.\)](#)

Affiliated with: Economics Department, College of Arts and Sciences

### [Education: Individually Designed Program \(B.S.\)](#)

Affiliated with: Education Department, College of Education and Social Services

### [Electrical Engineering: Biomedical Elective Concentration \(B.S.\)](#)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

### [Electrical Engineering: Computer Elective Concentration \(B.S.\)](#)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

Electrical Engineering: General Elective Concentration (B.S.)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

Electrical Engineering: Premedical Elective Concentration (B.S.)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

Engineering Management: Civil Engineering (B.S.)

Affiliated with: Engineering Management Program, College of Engineering and Mathematics

Engineering Management: Electrical Engineering (B.S.)

Affiliated with: Engineering Management Program, College of Engineering and Mathematics

Engineering Management: Mechanical Engineering (B.S.)

Affiliated with: Engineering Management Program, College of Engineering and Mathematics

English (B.A.)

Affiliated with: English Department, College of Arts and Sciences

Environmental Engineering (B.S.)

Affiliated with: Civil and Environmental Engineering Department, College of Engineering and Mathematics

Environmental Sciences [CALs] (B.S.)

Affiliated with: Environmental Sciences Program, College of Agriculture and Life Sciences

Environmental Sciences [CAS] (B.S.)

Affiliated with: Biology Department, Geology Department, Environmental Sciences Program, Chemistry Department, College of Arts and Sciences

Environmental Sciences [RSENR] (B.S.)

Affiliated with: Environmental Sciences Program, The Rubenstein School of Environment and Natural Resources

Environmental Studies [CALs] (B.S.)

Affiliated with: Environmental Program, College of Agriculture and Life Sciences

Environmental Studies [CAS] (B.A.)

Affiliated with: Environmental Program, College of Arts and Sciences

Environmental Studies [RSENR] (B.S.)

Affiliated with: Environmental Program, The Rubenstein School of Environment and



Natural Resources

European Studies (B.A.)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

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### Film and Television Studies (B.A.)

Affiliated with: English Department, College of Arts and Sciences

### Forestry (B.S.)

Affiliated with: Forestry Program, The Rubenstein School of Environment and Natural Resources

### French (B.A.)

Affiliated with: Romance Languages Department, College of Arts and Sciences

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### [Geography \(B.A.\)](#)

Affiliated with: Geography Department, College of Arts and Sciences

### [Geology \(B.A.\)](#)

Affiliated with: Geology Department, College of Arts and Sciences

### [Geology \(B.S.\)](#)

Affiliated with: Geology Department, College of Arts and Sciences

### [German \(B.A.\)](#)

Affiliated with: German and Russian Department, College of Arts and Sciences

### [Greek \(B.A.\)](#)

Affiliated with: Classics Department, College of Arts and Sciences

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### History (B.A.)

Affiliated with: History Department, College of Arts and Sciences

### Human Development and Family Studies (B.S.)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

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#### [Individual Design \(B.A.\)](#)

Affiliated with: College of Arts and Sciences

#### [Italian Studies \(B.A.\)](#)

Affiliated with: Romance Languages Department, College of Arts and Sciences

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<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>		

No degrees start with the letter 'j'.

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No degrees start with the letter 'k'.

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

### Latin (B.A.)

Affiliated with: Classics Department, College of Arts and Sciences

### Latin American Studies (B.A.)

Affiliated with: Area and International Studies Program, College of Arts and Sciences



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### Mathematics (B.A.)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences

### Mathematics (B.S.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and Mathematics

### Mathematics: Applied and Interdisciplinary Mathematics (B.A.)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences

### Mathematics: Statistics (B.A.)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences

### Mathematics: Statistics (B.S.)

Affiliated with: Mathematics and Statistics Department, College of Engineering and

Mathematics

Mechanical Engineering: Biomedical (B.S.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics

Mechanical Engineering: General (B.S.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics

Mechanical Engineering: Premedical (B.S.)

Affiliated with: Mechanical Engineering Department, College of Engineering and Mathematics

Medical Laboratory Science (B.S.)

Affiliated with: Medical Laboratory and Radiation Sciences Department, College of Nursing and Health Sciences

Microbiology (B.S.)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences

Molecular Genetics (B.S.)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences

Music (B.A.)

Affiliated with: Music Department, College of Arts and Sciences

Music Performance (B.M.)

Affiliated with: Music Department, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

### [Natural Resources: Integrated Natural Resources \(B.S.\)](#)

Affiliated with: Natural Resources Program, The Rubenstein School of Environment and Natural Resources

### [Natural Resources: Resource Ecology \(B.S.\)](#)

Affiliated with: Natural Resources Program, The Rubenstein School of Environment and Natural Resources

### [Natural Resources: Resource Planning \(B.S.\)](#)

Affiliated with: Natural Resources Program, The Rubenstein School of Environment and Natural Resources

### [Nuclear Medicine Technology \(B.S.\)](#)

Affiliated with: Medical Laboratory and Radiation Sciences Department, College of Nursing and Health Sciences

Nursing (B.S.)

Affiliated with: Nursing Department, College of Nursing and Health Sciences

Nursing (for Registered Nurses) (B.S.)

Affiliated with: Nursing Department, College of Nursing and Health Sciences

Nutrition and Food Sciences (B.S.)

Affiliated with: Nutrition and Food Sciences Department, College of Agriculture and Life Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

### [Philosophy \(B.A.\)](#)

Affiliated with: Philosophy Department, College of Arts and Sciences

### [Physics \(B.A.\)](#)

Affiliated with: Physics Department, College of Arts and Sciences

### [Physics \(B.S.\)](#)

Affiliated with: Physics Department, College of Arts and Sciences

### [Political Science \(B.A.\)](#)

Affiliated with: Political Science Department, College of Arts and Sciences

### [Psychology \(B.A.\)](#)

Affiliated with: Psychology Department, College of Arts and Sciences

### [Psychology: Biobehavioral \(B.S.\)](#)

Affiliated with: Psychology Department, College of Arts and Sciences

Psychology: Traditional (B.S.)

Affiliated with: Psychology Department, College of Arts and Sciences

Public Communication (B.S.)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

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No degrees start with the letter 'q'.





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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

### [Radiation Therapy \(B.S.\)](#)

Affiliated with: Medical Laboratory and Radiation Sciences Department, College of Nursing and Health Sciences

### [Recreation Management: Private Outdoor Recreation and Tourism \(B.S.\)](#)

Affiliated with: Recreation Management Program, The Rubenstein School of Environment and Natural Resources

### [Recreation Management: Public Outdoor Recreation \(B.S.\)](#)

Affiliated with: Recreation Management Program, The Rubenstein School of Environment and Natural Resources

### [Religion \(B.A.\)](#)

Affiliated with: Religion Department, College of Arts and Sciences

Russian (B.A.)

Affiliated with: German and Russian Department, College of Arts and Sciences

Russian/East European Studies (B.A.)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

### [Self-Designed Major \(B.S.\)](#)

Affiliated with: College of Agriculture and Life Sciences

### [Social Work \(B.S.\)](#)

Affiliated with: Social Work Department, College of Education and Social Services

### [Sociology \(B.A.\)](#)

Affiliated with: Sociology Department, College of Arts and Sciences

### [Spanish \(B.A.\)](#)

Affiliated with: Romance Languages Department, College of Arts and Sciences

### [Sustainable Landscape Horticulture \(B.S.\)](#)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

[Teacher Education: Art Education \(K-12\) \(B.S.\)](#)

Affiliated with: Education Department, College of Education and Social Services

[Teacher Education: Early Childhood Education \(PreK-3\) \(B.S.\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

[Teacher Education: Early Childhood Special Education \(Birth-Age 5\) \(B.S.\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

[Teacher Education: Elementary Education \(K-6\) \(B.S.\)](#)

Affiliated with: Education Department, College of Education and Social Services

[Teacher Education: Family and Consumer Sciences Education \(7-12\) \(B.S.\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

Teacher Education: Middle Level Education (5-9) (B.S.)

Affiliated with: Education Department, College of Education and Social Services

Teacher Education: Music Education (K-12) (B.S.)

Affiliated with: Education Department, College of Education and Social Services

Teacher Education: Physical Education (K-12) (B.S.)

Affiliated with: Education Department, College of Education and Social Services

Teacher Education: Secondary Education (7-12) (B.S.)

Affiliated with: Education Department, College of Education and Social Services

Theatre (B.A.)

Affiliated with: Theatre Department, College of Arts and Sciences

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No degrees start with the letter 'u'.

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No degrees start with the letter 'v'.



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### Wildlife and Fisheries Biology: Fisheries Biology (B.S.)

Affiliated with: Wildlife and Fisheries Biology Program, The Rubenstein School of Environment and Natural Resources

### Wildlife and Fisheries Biology: Wildlife Biology (B.S.)

Affiliated with: Wildlife and Fisheries Biology Program, The Rubenstein School of Environment and Natural Resources

### Women's and Gender Studies (B.A.)

Affiliated with: Women's and Gender Studies Program, College of Arts and Sciences



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### Zoology (B.A.)

Affiliated with: Biology Department, College of Arts and Sciences

### Zoology (B.S.)

Affiliated with: Biology Department, College of Arts and Sciences

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<b>O</b>	<b>P</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>T</b>	<b>U</b>
<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>		

[ALANA U.S. Ethnic Studies \(Minor\)](#)

Affiliated with: ALANA U.S. Ethnic Studies Program, College of Arts and Sciences

[Accounting \(Minor\)](#)

Affiliated with: School of Business Administration

[African Studies \(Minor\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

[Agricultural and Resource Entrepreneurship \(Minor\)](#)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

[Animal Science \(Minor\)](#)

Affiliated with: Animal Science Department, College of Agriculture and Life Sciences

Applied Design (Minor)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

Archaeology (Minor)

Affiliated with: Anthropology Department, College of Arts and Sciences

Art History (Minor)

Affiliated with: Art Department, College of Arts and Sciences

Art: Studio Art (Minor)

Affiliated with: Art Department, College of Arts and Sciences

Asian Studies (Minor)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

#### Biology (Minor)

Affiliated with: Biology Department, College of Arts and Sciences

#### Botany (Minor)

Affiliated with: Botany Department, College of Agriculture and Life Sciences, College of Arts and Sciences

#### Business Administration (Minor)

Affiliated with: School of Business Administration

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[Canadian Studies \(Minor\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

[Chemistry \(Minor\)](#)

Affiliated with: Chemistry Department, College of Arts and Sciences

[Chinese \(Minor\)](#)

Affiliated with: Chinese Language Program, College of Arts and Sciences

[Classical Civilization \(Minor\)](#)

Affiliated with: Classics Department, College of Arts and Sciences

[Communication Sciences \(Minor\)](#)

Affiliated with: Communication Sciences Department, College of Arts and Sciences

[Community and International Development \(Minor\)](#)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

Computer Science (Minor)

Affiliated with: Computer Science Department, College of Arts and Sciences, College of Engineering and Mathematics

Consumer Affairs (Minor)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences

Consumer and Advertising (Minor)

Affiliated with: Community Development and Applied Economics Department, College of Agriculture and Life Sciences



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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

### [Economics \(Minor\)](#)

Affiliated with: Economics Department, College of Arts and Sciences

### [Electrical Engineering \(Minor\)](#)

Affiliated with: Electrical and Computer Engineering Department, College of Engineering and Mathematics

### [English \(Minor\)](#)

Affiliated with: English Department, College of Arts and Sciences

### [Environmental Sciences: Biology \(Minor\)](#)

Affiliated with: Biology Department, College of Arts and Sciences

### [Environmental Sciences: Chemistry \(Minor\)](#)

Affiliated with: Chemistry Department, College of Arts and Sciences

Environmental Sciences: Geology (Minor)

Affiliated with: Geology Department, College of Arts and Sciences

Environmental Studies [CALs] (Minor)

Affiliated with: Environmental Program, College of Agriculture and Life Sciences

Environmental Studies [CAS] (Minor)

Affiliated with: Environmental Program, College of Arts and Sciences

Environmental Studies [RSENR] (Minor)

Affiliated with: Environmental Program, The Rubenstein School of Environment and Natural Resources

European Studies (Minor)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

#### Film and Television Studies (Minor)

Affiliated with: English Department, College of Arts and Sciences

#### Forestry (Minor)

Affiliated with: Forestry Program, The Rubenstein School of Environment and Natural Resources

#### French (Minor)

Affiliated with: Romance Languages Department, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

[Geography \(Minor\)](#)

Affiliated with: Geography Department, College of Arts and Sciences

[Geology \(Minor\)](#)

Affiliated with: Geology Department, College of Arts and Sciences

[German \(Minor\)](#)

Affiliated with: German and Russian Department, College of Arts and Sciences

[Gerontology \(Minor\)](#)

Affiliated with: Sociology Department, College of Arts and Sciences

[Greek Language and Literature \(Minor\)](#)

Affiliated with: Classics Department, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

#### [History \(Minor\)](#)

Affiliated with: History Department, College of Arts and Sciences

#### [Holocaust Studies \(Minor\)](#)

Affiliated with: Holocaust Studies Program, College of Arts and Sciences

#### [Human Development and Family Studies \(Minor\)](#)

Affiliated with: Integrated Professional Studies Department, College of Education and Social Services

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

[Individual Design \(Minor\)](#)

Affiliated with: College of Arts and Sciences

[Italian \(Minor\)](#)

Affiliated with: Romance Languages Department, College of Arts and Sciences

[Italian Studies \(Minor\)](#)

Affiliated with: Romance Languages Department, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

#### [Japanese \(Minor\)](#)

Affiliated with: Japanese Language Program, College of Arts and Sciences



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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

[Latin American Studies \(Minor\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

[Latin Language and Literature \(Minor\)](#)

Affiliated with: Classics Department, College of Arts and Sciences

[Linguistic Anthropology \(Minor\)](#)

Affiliated with: Anthropology Department, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

### Mathematics: Applied (Minor)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences, College of Engineering and Mathematics

### Mathematics: Pure (Minor)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences, College of Engineering and Mathematics

### Microbiology (Minor)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences

### Middle East Studies (Minor)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

Molecular Genetics (Minor)

Affiliated with: Microbiology and Molecular Genetics Department, College of Agriculture and Life Sciences

Music (Minor)

Affiliated with: Music Department, College of Arts and Sciences

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#### [Nutrition and Food Sciences \(Minor\)](#)

Affiliated with: Nutrition and Food Sciences Department, College of Agriculture and Life Sciences

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<a href="#">N</a>	<a href="#">P</a>	<a href="#">Q</a>	<a href="#">R</a>	<a href="#">S</a>	<a href="#">T</a>	<a href="#">U</a>
<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

No minors start with the letter 'o'.

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

[Philosophy \(Minor\)](#)

Affiliated with: Philosophy Department, College of Arts and Sciences

[Physics \(Minor\)](#)

Affiliated with: Physics Department, College of Arts and Sciences

[Plant and Soil Science \(Minor\)](#)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life Sciences

[Political Science \(Minor\)](#)

Affiliated with: Political Science Department, College of Arts and Sciences

[Psychology \(Minor\)](#)

Affiliated with: Psychology Department, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

[Recreation Management \(Minor\)](#)

Affiliated with: Recreation Management Program, The Rubenstein School of Environment and Natural Resources

[Religion \(Minor\)](#)

Affiliated with: Religion Department, College of Arts and Sciences

[Russian \(Minor\)](#)

Affiliated with: German and Russian Department, College of Arts and Sciences

[Russian/East European Studies \(Minor\)](#)

Affiliated with: Area and International Studies Program, College of Arts and Sciences

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

### [Social Anthropology \(Minor\)](#)

Affiliated with: Anthropology Department, College of Arts and Sciences

### [Sociology \(Minor\)](#)

Affiliated with: Sociology Department, College of Arts and Sciences

### [Spanish \(Minor\)](#)

Affiliated with: Romance Languages Department, College of Arts and Sciences

### [Special Education \(Minor\)](#)

Affiliated with: Education Department, College of Education and Social Services

### [Speech \(Minor\)](#)

Affiliated with: Theatre Department, College of Arts and Sciences

### [Statistics \(Minor\)](#)

Affiliated with: Mathematics and Statistics Department, College of Arts and Sciences,  
College of Engineering and Mathematics

Sustainable Agriculture (Minor)

Affiliated with: Plant and Soil Science Department, College of Agriculture and Life  
Sciences

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#### Theatre (Minor)

Affiliated with: Theatre Department, College of Arts and Sciences

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<a href="#">U</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

#### [Vermont Studies \(Minor\)](#)

Affiliated with: Vermont Studies Program, College of Arts and Sciences

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#### [Wildlife Biology \(Minor\)](#)

Affiliated with: Wildlife and Fisheries Biology Program, The Rubenstein School of Environment and Natural Resources

#### [Women's and Gender Studies \(Minor\)](#)

Affiliated with: Women's and Gender Studies Program, College of Arts and Sciences

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#### Zoology (Minor)

Affiliated with: Biology Department, College of Arts and Sciences

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<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
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- [ALANA U.S. Ethnic Studies Program](#)
- [Anatomy and Neurobiology Department](#)
- [Animal Science Department](#)
- [Anthropology Department](#)
- [Area and International Studies Program](#)
- [Art Department](#)

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<a href="#">V</a>	<a href="#">W</a>	<a href="#">X</a>	<a href="#">Y</a>	<a href="#">Z</a>		

- [Biochemistry Department](#)
- [Biochemistry Program](#)
- [Biological Science](#)
- [Biology Department](#)
- [Botany Department](#)

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- [Chemistry Department](#)
- [Chinese Language Program](#)
- [Civil and Environmental Engineering Department](#)
- [Classics Department](#)
- [Communication Sciences Department](#)
- [Community Development and Applied Economics Department](#)
- [Computer Science Department](#)

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- [Economics Department](#)
- [Education Department](#)
- [Electrical and Computer Engineering Department](#)
- [Engineering Management Program](#)
- [English Department](#)
- [Environmental Program](#)
- [Environmental Sciences Program](#)

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- [Forestry Program](#)



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- [Geography Department](#)
- [Geology Department](#)
- [German and Russian Department](#)

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- [History Department](#)
- [Holocaust Studies Program](#)

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- [Integrated Professional Studies Department](#)

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- [Japanese Language Program](#)

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- [Materials Science Program](#)
- [Mathematics and Statistics Department](#)
- [Mechanical Engineering Department](#)
- [Medical Laboratory and Radiation Sciences Department](#)
- [Microbiology and Molecular Genetics Department](#)
- [Molecular Physiology and Biophysics Department](#)
- [Music Department](#)

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- [Natural Resources Program](#)
- [Nursing Department](#)
- [Nutrition and Food Sciences Department](#)



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## Colleges and Schools

### The College of Agriculture and Life Sciences

The programs of the College of Agriculture and Life Sciences emphasize life sciences, agriculture and food systems, environmental protection, and the preservation of healthy rural communities.

### The College of Arts and Sciences

The College of Arts and Sciences at UVM combines the advantages of a small liberal arts college and the resources of a major research institution. It provides students with a sound liberal education through close interaction with nationally and internationally noted scholars.

### The College of Education and Social Services

The College of Education and Social Services offers undergraduate programs in Athletic Training, Human Development and Family Studies, Social Work, and Teacher Education.

### The College of Engineering and Mathematics

The College offers stimulating, professionally-oriented programs for students interested in careers in computer science, engineering, and mathematics.

### The College of Medicine

The UVM College of Medicine is one of the oldest and most respected medical schools in the nation. Since its establishment in 1822, the College's mission has been the education of undergraduate and medical students.

### The College of Nursing and Health Sciences

The College of Nursing and Health Sciences offers undergraduate and graduate programs in a variety of health care disciplines.

## Education

- [Graduate College](#)
- [Honors College](#)
- [School of Business Administration](#)
- [The Rubenstein School of Environment and Natural Resources](#)

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## Continuing Education

Continuing Education serves UVM's commitment to lifelong learning through the development and delivery of educational courses and programs that connect the resources of the University with the needs of non-degree and summer students in Vermont and the Northeast.

## The Graduate College

The Graduate College administers graduate programs and is responsible for overseeing admissions, policies, assistantships and fellowships, and research funding.

## The Honors College

The Honors College offers an intensely focused, academically challenging environment for some of the university's most outstanding undergraduate students.

## The School of Business Administration

The mission of the School of Business Administration is to educate Vermont, national, and international students for careers in management and to conduct research that extends knowledge and contributes to the effectiveness of teaching and learning.

## The Rubenstein School of Environment and Natural Resources

Our emphasis on the integration of natural science and cultural perspectives reflects the interdisciplinary context in which ecosystem management, resource planning, and environmental concerns must be addressed.

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Additionally, a variety of inter-disciplinary academic offerings are available in:

## Studying the Environment

One of the distinctive features of UVM is its focus on studying the environment and environmental problems. Students interested in these issues have a rich array of choices. Many of these are within specific disciplines, but others offer the opportunity for multidisciplinary study.

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## College of Agriculture and Life Sciences (CAL S)

### Contact Information

*University of Vermont*  
*College of Agriculture and Life Sciences*  
*108 Morrill Hall*  
*146 University Place*  
*Burlington, VT 05405-0106*

Phone: (802) 656-0137

Fax: (802) 656-0290

Email: [calsdean@uvm.edu](mailto:calsdean@uvm.edu)

[Web Site](#)

### Overview

The programs of the College of Agriculture and Life Sciences (CAL S)

emphasize life sciences, agriculture and food systems, environmental protection, and the preservation of healthy rural communities. The College is committed to providing educated professionals knowledge to help solve important societal problems, and to insure a sustainable, vital healthy Vermont and globe.

The College performs the four public functions which include teaching, conducting research, disseminating information to the public, and performing related services. These four areas of work are performed by CAL S in cooperation with the Agricultural Experiment Station, and The University of Vermont Extension.

The College faculty strive for excellence in undergraduate education as evidenced by a sustained and enviable record of University teaching award winners. The College

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- [Requirements for All Undergraduate Degree Students](#)

Education	emphasizes the importance of each individual student and promotes significant student-faculty interaction. Students are provided with a firm foundation in the social and life sciences in order to excel and meet the challenges in future professional careers. Faculty and peer advisors provide a broad range of support, to help students develop high-quality academic programs that meet individual needs.
• Graduate College	
• Honors College	
• School of Business Administration	Opportunities abound for off-campus experiences such as internships, independent study, and study abroad. Graduates of the College are successfully meeting the requirements to pursue advanced education. Career choices are broad, but focus primarily in agribusiness, dietetics, international and rural development, agriculture, veterinary and human medicine, biotechnology, nutrition, research and teaching, horticulture, and botany.
• The Rubenstein School of Environment and Natural Resources	Academic majors are enhanced by the on-campus and field facilities, labs, and research for which the College is renowned. Many CALS faculty working through the Experiment Station conduct mission-oriented, applied agricultural research, and faculty encourage undergraduate research.
Policies and General Information	
Faculty and Administration	The College of Agriculture and Life Sciences welcomes applications from international students. The specific procedures and requirements are listed in the Admissions section presented in the catalogue.
Catalogue Archives	The Office of the Dean of the College is located in Rooms 106 and 108 in Morrill Hall.
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### Bachelor of Science (B.S.)

- [Agricultural and Resource Entrepreneurship \(B.S.\)](#)
- [Animal Science: Dairy Production/Farm Management \(B.S.\)](#)
- [Animal Science: Equine Science \(B.S.\)](#)
- [Animal Science: General Animal Science \(B.S.\)](#)
- [Animal Science: Preveterinary/Preprofessional Science \(B.S.\)](#)
- [Biochemistry \(B.S.\)](#)
- [Biological Science, Integrated \(B.S.\)](#)
- [Botany: Ecology and Evolutionary Biology of Plants \(B.S.\)](#)
- [Botany: General Botany \(B.S.\)](#)
- [Botany: Plant Molecular Biology \(B.S.\)](#)
- [Community and International Development \(B.S.\)](#)
- [Dietetics \(B.S.\)](#)
- [Ecological Agriculture \(B.S.\)](#)
- [Environmental Sciences \[CALS\] \(B.S.\)](#)
- [Environmental Studies \[CALS\] \(B.S.\)](#)
- [Microbiology \(B.S.\)](#)
- [Molecular Genetics \(B.S.\)](#)
- [Nutrition and Food Sciences \(B.S.\)](#)
- [Public Communication \(B.S.\)](#)
- [Self-Designed Major \(B.S.\)](#)
- [Sustainable Landscape Horticulture \(B.S.\)](#)

### Undergraduate Minor (Minor)

- [Agricultural and Resource Entrepreneurship \(Minor\)](#)
- [Animal Science \(Minor\)](#)
- [Applied Design \(Minor\)](#)

- Education
  - [Botany \(Minor\)](#)
  - [Community and International Development \(Minor\)](#)
  - [Consumer Affairs \(Minor\)](#)
  - [Consumer and Advertising \(Minor\)](#)
  - [Environmental Studies \[CALS\] \(Minor\)](#)
  - [Microbiology \(Minor\)](#)
  - [Molecular Genetics \(Minor\)](#)
  - [Nutrition and Food Sciences \(Minor\)](#)
  - [Plant and Soil Science \(Minor\)](#)
  - [Sustainable Agriculture \(Minor\)](#)
- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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## Animal Science Department

### Contact Information

*University of Vermont*  
*Animal Science Department*  
 102 Terrill Hall  
 570 Main Street  
 Burlington, VT 05405

Phone: (802) 656-0155  
 Fax: (802) 656-8196  
 Email: [helen.maciejewski@uvm.edu](mailto:helen.maciejewski@uvm.edu)

[Web Site](#)

### Overview

Domestic animals play a major role in our lives through agriculture, recreation, biomedical science, and companionship. The mission of the Department of Animal Science is to provide a high quality, broad-based education emphasizing domestic animals and their interactions with humans.

Our graduates enter the veterinary or other professions, biomedical science, the agribusiness industry, companion animal care and breeding, zoos and aquaria, or education. Additionally, many students use a B.S. in Animal Science as a stepping stone to careers in business and commerce. To provide the necessary flexibility to achieve this diversity students work closely with faculty advisors to individualize their programs.

To enhance the veterinary education of excellent students, the Department of Animal Science has established, with Tufts University School of Veterinary Medicine in Massachusetts, and with Massey University Veterinary School in New Zealand, highly

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- Education competitive programs for early acceptance / guaranteed admission to veterinary school. For further information on these highly competitive options contact the Department of Animal Science directly at (802)656-0155 or e-mail [k.tatro@uvm.edu](mailto:k.tatro@uvm.edu). Some limited veterinary scholarships are also available for upper-level students.
- Graduate College
- Honors College
- School of Business Administration For students interested in dairy production, the FARMS (UVM/VTC Dairy Farm Management 2 + 2 Program) provides Vermont residents with scholarships and the opportunity to earn a B. S. after a two-year Associate's Degree in Dairy Farm Management from the Vermont Technical College.
- The Rubenstein School of Environment and Natural Resources An option for the outstanding student with an interest in a graduate degree is the Accelerated Master's in which students commence study for their master's degree in their senior year and have the potential to obtain a B. S. and M. S. in a five-year period.

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Policies and General Information

The Department of Animal Science actively encourages participation in undergraduate research, internships, and study abroad. By combining classroom, laboratories, and practical experience students maximize their performance in a friendly environment and develop responsibility for and control over their education.

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Faculty and Administration

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| Burlington, VT 05405 | (802) 656-3131 | [Contact UVM](#) © 2018



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## Animal Science Department: Academic Offerings

- [Animal Science \(Minor\)](#)
- [Animal Science: Dairy Production/Farm Management \(B.S.\)](#)
- [Animal Science: Equine Science \(B.S.\)](#)
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## Animal Science (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Animal Science department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Five courses with a minimum of 15 credit hours including Introductory Animal Sciences ([ASCI 001](#)); two courses selected from core sciences including [ASCI 043](#), [ASCI 110](#), [ASCI 122](#), [ASCI 141](#), [ASCI 205](#), [ASCI 212](#), [ASCI 215](#), [ASCI 216](#), [ASCI 220](#); two courses selected from applied sciences including [ASCI 006](#), [ASCI 113](#), [ASCI 115](#), [ASCI 117](#), [ASCI 118](#), [ASCI 119](#), [ASCI 121](#), [ASCI 125](#), [ASCI 134](#), [ASCI 135](#), [ASCI 143](#), [ASCI 154](#), [ASCI 161](#), [ASCI 171](#), [ASCI 220](#), [ASCI 230](#), [ASCI 231](#), [ASCI 233](#), [ASCI 234](#), [ASCI 263](#), [ASCI 264](#), [ASCI 272](#). At least eight credits must be at 100-level, three of which must be at 200-level.

*For students in the College of Arts and Sciences:* Five courses with a minimum of 15 credit hours, including Introductory Animal Science ([ASCI 001](#)), two courses in Core Science including [ASCI 043](#), [ASCI 110](#), [ASCI 122](#), [ASCI 141](#), [ASCI 205](#), [ASCI 212](#), [ASCI 215](#), [ASCI 216](#), and two courses selected from Applied Sciences including [ASCI 006](#), [ASCI 115](#), [ASCI 117](#), [ASCI 118](#), [ASCI 119](#), [ASCI 121](#), [ASCI 125](#), [ASCI 134](#), [ASCI 135](#), [ASCI 143](#), [ASCI 154](#), [ASCI 161](#), [ASCI 171](#), [ASCI 220](#), [ASCI 230](#), [ASCI 231](#), [ASCI 233](#), [ASCI 234](#), [ASCI 263](#), [ASCI 264](#), [ASCI 272](#). At least 8 credits must be at the 100-level, 3 of which must be at the 200-level. Acceptance into this program is by application only. Contact Dept. of Animal Science, 102 Terrill, for more information.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).

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- Departments and Programs: [Animal Science Department](#).

• Graduate College

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• Honors College

• School of Business  
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- Continuing

Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Animal Science Department > Academic Offerings > Animal Science: Dairy Production/Farm Management (B.S.)

## Animal Science: Dairy Production/Farm Management (Bachelor of Science)

### Overview

Designed for the student seeking in-depth training in dairy herd management and milk production with strong links to agribusiness. Experiential learning is emphasized through the CREAM program and the FARMS program.

For students interested in dairy production, the UVM/VTC Dairy Farm Management 2 + 2 Program provides Vermont residents with scholarships and the opportunity to earn a B. S. after a two-year Associate's Degree in Dairy Farm Management from the [Vermont Technical College](#) .

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Animal Science Requirements](#)

### Curriculum

The following is a possible curriculum.

FIRST YEAR	
Course	Credits
<a href="#">AGRI 001/AGRI 002</a> - Foundations	6
<a href="#">ASCI 001</a> - Introductory Animal Sciences	4
<a href="#">ENGS 001</a> - Written Expression	3

Education	CDAE 166 - Intro A&R Entrepreneurship	3
	Organic Chemistry	4
• Graduate College	Inorganic Chemistry	4
• Honors College	Mathematics	3
	Cultural Diversity Elective	1-3
• School of Business Administration	General Electives	3-6
	<b>Total</b>	<b>31-36</b>
<b>SOPHOMORE YEAR</b>		
• The Rubenstein School of Environment and Natural Resources	<b>Course</b>	<b>Credits</b>
	<u>ASCI 043 - Fundamentals of Nutrition</u>	3
	<u>ASCI 110 - Animal Nutrit, Metab &amp; Feeding</u>	4
	<u>ASCI 122 - Animals in Soc/Animal Welfare</u>	3
	<u>ASCI 134 - CREAM</u>	4
	<u>ASCI 141 - Anat&amp;Physiol Domestic Animals</u>	4
	<u>ASCI 281 - Animal Sciences Career Seminar</u>	1
Policies and General Information	Biology	4-8
Faculty and Administration	Financial Management	3
Catalogue Archives	Statistics	3
	General Electives	3
	<b>Total</b>	<b>32-36</b>
<b>JUNIOR YEAR</b>		
	<b>Course</b>	<b>Credits</b>
	<u>ASCI 004 - Dairy Cattle Judging</u>	2
	<u>ASCI 135 - CREAM</u>	4
	<u>ASCI 234 - Advanced Dairy Management</u>	15
	Advanced Feeds	2
	Accounting	3
	Physical Education Elective	1
	General Electives	6-9
	<b>Total</b>	<b>33-36</b>
<b>SENIOR YEAR</b>		
	<b>Course</b>	<b>Credits</b>
	<u>ASCI 215 - Physiology of Reproduction</u>	4
	<u>ASCI 220 - Lactation Physiology</u>	3
	<u>CDAE 264 - Risk Anyl&amp;Forecast Procedures</u>	3
	<u>CDAE 266 - Dec Making:A&amp;R Entrepreneurshp</u>	3
	Marketing	3
	Senior Project	4-8
	Physical Education Elective	1
	General Electives	6-9

Total

27-34

## Affiliations

- Colleges and Schools:[College of Agriculture and Life Sciences](#).
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Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Animal Science Department > Academic Offerings > Animal Science: Equine Science (B.S.)

## Animal Science: Equine Science (Bachelor of Science)

### Overview

Specialized courses are offered on the care, management, breeding, training, and health of horses. Students can specialize in either a teaching/training track or a management track.

The world-famous Morgan Horse Farm at Middlebury, about 45 minutes from campus, is also part of the Department and offers opportunities for study and research. Students may also enroll in equine courses at the Miner Agricultural Research Institute in Chazy, New York.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Animal Science Requirements](#)

### Specific Requirements

- [ASCI 115](#) Introduction to Equine Studies
- [ASCI 117](#) Horse, Health and Disease
- [ASCI 298](#) Equine Industry Issues
- One of the following courses
  - [ASCI 195/ASCI 196](#) Field Experience
  - [ASCI 197/ASCI 198](#) Undergraduate Research
  - [ASCI 298](#) Special Topics
- Two of three courses in the following tracks:
  - Teaching/Training Track

- Education
  - ASCI 119 Equine Training Techniques
  - ASCI 125 Equine Instructing Techniques
  - ASCI 298 Equine Enterprise Management
- Graduate College
  - Management Track
    - ASCI 205 Equine Reproduction & Management
    - ASCI 121 EQUUS
    - ASCI 298 Equine Enterprise Management
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

## Curriculum

The following is a possible curriculum.

<b>FIRST YEAR</b>	
<b>Course</b>	<b>Credits</b>
<u>AGRI 001&amp;AGRI 002 - Foundations</u>	6
<u>ASCI 001 - Introductory Animal Sciences</u>	4
<u>ASCI 115 - Introduction to Equine Studies</u>	4
<u>BIOL 001 - Principles of Biology</u>	4
<u>ENGS 001 - Written Expression</u>	3
Inorganic Chemistry	4
Organic Chemistry	4
Mathematics	3
Cultural Diversity Elective	1
General Electives	0-3
<b>Total</b>	<b>33-36</b>
<b>SOPHOMORE YEAR</b>	
<b>Course</b>	<b>Credits</b>
<u>ASCI 043 - Fundamentals of Nutrition</u>	3
<u>ASCI 110 - Animal Nutrit, Metab &amp; Feeding</u>	4
<u>ASCI 117 - Horse Health and Disease</u>	3
<u>ASCI 141 - Anat&amp;Physiol Domestic Animals</u>	4
<u>CDAE 166 - Intro A&amp;R Entrepreneurship</u>	3
Emergency First Aid	2
Financial Management	3
General Electives	3
Physical Education Elective	1
<b>Total</b>	<b>29</b>
<b>JUNIOR YEAR</b>	
<b>Course</b>	<b>Credits</b>
<u>ASCI 215 - Physiology of Reproduction</u>	4
<u>ASCI 119 - Equine Training Techniques</u> or <u>ASCI 121 - Equus</u>	3-4

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<u>ASCI 122 - Animals in Soc/Animal Welfare</u>	3
<u>ASCI 281 - Animal Sciences Career Seminar</u>	1
<u>ASCI 298 - Equine Enterprise Mngmnt</u>	2
<u>PSS 011 - Principles of Plant Science</u>	3
<u>SPCH 011 - Effective Speaking</u>	3
Marketing	3
Microbiology	4
Statistics	3
General Electives	3-6
<b>Total</b>	32-36
<b>SENIOR YEAR</b>	
<b>Course</b>	<b>Credits</b>
<u>ASCI 143 - Forage Crop Management</u>	3
<u>ASCI 205 - Equine Reproduction&amp;Management</u>	3
[[course:asci 298 ASCI 298 - Equine Industry Issues]]	3
<u>CDAE 266 - Dec Making:A&amp;R Entrepreneurshp</u>	3
Equine Internship	3-6
Practical Equine Management	3
Genetics	3
Specialized Topic	1-3
General Electives	6-8
Physical Education Elective	1
<b>Total</b>	29-36

### Affiliations

- Colleges and Schools:College of Agriculture and Life Sciences.
- Departments and Programs:Animal Science Department.

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## Animal Science: General Animal Science (Bachelor of Science)

### Overview

Under this concentration, students design a program to suit their needs, or pursue a broader-based program to meet a particular career goal. For example, this option is often used by students who have an interest in human/animal interactions, animal welfare, and zoo animals. The student and advisor select a combination of basic science, production, or companion animal courses and balance these with courses available elsewhere in the College or University. It usually involves an internship experience.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Animal Science Requirements](#)

### Curriculum

The following is a possible curriculum.

FIRST YEAR	
Course	Credits
<a href="#">AGRI 001&amp;AGRI 002 - Foundations</a>	6
<a href="#">ASCI 001 - Introductory Animal Sciences</a>	4
<a href="#">ENGS 001 - Written Expression</a>	3
Biology	4
Organic Chemistry	4
Inorganic Chemistry	4

Education	Mathematics	3
• Graduate College	Cultural Diversity Elective	1-3
	General Electives	3-6
• Honors College	Physical Education Elective	1
• School of Business Administration	<b>Total</b>	33-36
	<b>SOPHOMORE YEAR</b>	
• The Rubenstein School of Environment and Natural Resources	<b>Course</b>	<b>Credits</b>
	<a href="#">ASCI 043 - Fundamentals of Nutrition</a>	3
	<a href="#">ASCI 110 - Animal Nutrit, Metab &amp; Feeding</a>	4
	<a href="#">ASCI 141 - Anat&amp;Physiol Domestic Animals</a>	4
	<a href="#">ASCI 171 - Zoos, Exotics &amp; Endang Species</a>	3
	<a href="#">WFB 174 - Prin of Wildlife Management</a>	3
Policies and General Information	Biology	4
	Environmental Biology	3
Faculty and Administration	Statistics	3
	General Electives	3-6
Catalogue Archives	Physical Education Elective	1
	<b>Total</b>	31-34
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Credits</b>	
<a href="#">ASCI 118 - Appl Animal Health</a>	3	
<a href="#">ASCI 122 - Animals in Soc/Animal Welfare</a>	3	
<a href="#">ASCI 154 - Dog Training and Behavior</a>	3	
<a href="#">ASCI 272 - Adv Top:Zoo,Exotic,Endang Spec</a>	3	
<a href="#">ASCI 281 - Animal Sciences Career Seminar</a>	1	
<a href="#">PSYC 109 - Psychology Research Methods I</a>	4	
<a href="#">WFB 130 - Ornithology</a>	3	
<a href="#">WFB 273 - Terrestrial Wildlife</a>	3	
General Electives	6-12	
<b>Total</b>	29-35	
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Credits</b>	
<a href="#">ASCI 195/ASCI 196 - Field Experience</a>	12	
<a href="#">ASCI 215 - Physiology of Reproduction</a>	4	
<a href="#">ASCI 216 - Endocrinology</a>	3	
<a href="#">ASCI 263 - Clin Top:Companion Animal Med</a>	3	
<a href="#">PSYC 220 - Animal Behavior</a>	3	
<a href="#">WFB 176 - Florida Ecology Field Trip</a>	2	
General Electives	3-9	
<b>Total</b>	30-36	



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## Animal Science: Preveterinary/Preprofessional Science (Bachelor of Science)

### Overview

This is the option for students most interested in the basic sciences who intend to enter veterinary, professional, or graduate school. It provides the necessary background in science as well as the opportunity for advanced study related to production and companion animals.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Animal Science Requirements](#)

### Curriculum

The following is a possible curriculum.

FIRST YEAR	
Course	Credits
<a href="#">AGRI 001/AGRI 002 - Foundations</a>	6
<a href="#">ASCI 001 - Introductory Animal Sciences</a>	4
Biology	8
Inorganic Chemistry	8
Math through Calculus	6
Cultural Diversity Elective	3
General Electives	3

Education	<b>Total</b>	36
• Graduate College	<b>SOPHOMORE YEAR</b>	
• Honors College	<b>Course</b>	<b>Credits</b>
• School of Business Administration	<a href="#">ASCI 043 - Fundamentals of Nutrition</a>	3
• The Rubenstein School of Environment and Natural Resources	<a href="#">ASCI 110 - Animal Nutrit, Metab &amp; Feeding</a>	4
	<a href="#">ASCI 141 - Anat&amp;Physiol Domestic Animals</a>	4
	<a href="#">ENGS 001 - Written Expression</a>	3
	Organic Chemistry	8
	Statistics	3
	General Electives	3-9
	<b>Total</b>	28-34
Policies and General Information	<b>JUNIOR YEAR</b>	
Faculty and Administration	<b>Course</b>	<b>Credits</b>
Catalogue Archives	<a href="#">ASCI 117 - Horse Health and Disease</a>	3
	<a href="#">ASCI 122 - Animals in Soc/Animal Welfare</a>	3
	<a href="#">ASCI 281 - Animal Sciences Career Seminar</a>	1
	Microbiology	4
	Physics	10
	English Composition	3
	General Electives	3-12
	<b>Total</b>	27-36
	<b>SENIOR YEAR</b>	
	<b>Course</b>	<b>Credits</b>
	<a href="#">ASCI 118 - Appl Animal Health</a>	3
	<a href="#">ASCI 154 - Dog Training and Behavior</a>	3
	<a href="#">ASCI 163 - Clinical Veterinary Medicine</a>	3
	<a href="#">ASCI 212 - Genetics &amp; Breeding</a>	3
	<a href="#">ASCI 215 - Physiology of Reproduction</a>	4
	<a href="#">ASCI 216 - Endocrinology</a>	3
	Biochemistry	4
	General Electives	6-12
	<b>Total</b>	29-35

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## Animal Science Requirements

- Animal Science: [ASCI 001](#), [ASCI 043](#), [ASCI 110](#), [ASCI 122](#), [ASCI 141](#), and [ASCI 281](#); two additional animal sciences course; one course at the 200-level chosen from [ASCI 205](#), [ASCI 215](#), [ASCI 216](#), or [ASCI 220](#).
- Animal Health: One course chosen from [ASCI 117](#), [ASCI 118](#), [ASCI 263](#), [ASCI 264](#), [MMG 101](#), [MMG 222](#), [MMG 223](#), [MMG 225](#), or [BMT 242](#).
- Biology: [BIOL 001](#).
- Chemistry: [CHEM 023](#) or [CHEM 031](#); [CHEM 026](#), [CHEM 042](#) or [CHEM 141](#).
- Computing: [CS 002](#) or [AGRI 002](#) (Foundations: Information Technology).
- Genetics: [ASCI 212](#).
- Mathematics: MATH 009 or higher.
- Statistics: [STAT 111](#), [STAT 141](#), or [STAT 211](#).
- Additional courses are selected with the help of the designated advisor. See specific academic offerings for additional course requirements.

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## Courses in Animal Science

### ASCI 001 - Introductory Animal Sciences

An overview of the genetics, nutrition, reproduction, and management of livestock and recreation species; introduction to animal behavior, animal disease, and biotechnology.

Credits: 4.

### ASCI 004 - Dairy Cattle Judging

Principles of dairy cattle judging demonstrated and practiced using live animals.

Credits: 2.

### ASCI 006 - Companion Animal Care & Mgmt

Scientific principles of nutrition, breeding selection, health, management practices, pet therapy, and animal bonding. Primary emphasis on cat and dog.

Credits: 3.

### ASCI 043 - Fundamentals of Nutrition

Comprehensive study of specific nutrients in terms of their availability, function, and utilization in mammalian species. Prerequisites: High school chemistry and biology.

Credits: 3.

### ASCI 110 - Animal Nutrit, Metab & Feeding

Principles of meeting the nutrient requirements of animals, especially as they relate to the practical problems of formulation and production systems.

Prerequisite: ASCI 043.

Credits: 4.

### ASCI 115 - Introduction to Equine Studies

Overview of the scientific and practical application of equine management and

Education selection principles. Housing, nutrition, herd health, reproduction, and career opportunities.

• Graduate College

Credits: 4.

• Honors College

**ASCI 117 - Horse Health and Disease**

Discusses the basic anatomy and physiology of the horse, common equine diseases and problems, their diagnoses, prevention, and treatment. Prerequisite: ASCI 001; a Biology course, or Instructor permission.

• School of Business Administration

Credits: 3.

• The Rubenstein School of Environment and Natural Resources

**ASCI 118 - Appl Animal Health**

Natural response to disease, methods of diagnosis, control, and treatment. Prerequisite: ASCI 001; a Biology course, or Instructor permission.

Credits: 3.

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Policies and General Information

**ASCI 119 - Equine Training Techniques**

Behavior modification and training of the young horse under saddle and in the cart. Introduction to interdisciplinary directions open to the equine athlete and to conditioning programs associated with these options.

Credits: 3.

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Faculty and Administration

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**ASCI 121 - Equus**

A hands-on equine management experience. Students perform horse duties, recordkeeping, and make financial and management decisions on a horse boarding operation. Prerequisite: Sophomore standing; Instructor permission.

Credits: 2-4.

**ASCI 122 - Animals in Soc/Animal Welfare**

Designed to heighten awareness and understanding of human-animal relationships in society, agriculture, and science. Prerequisite: Sophomore standing.

Credits: 3.

**ASCI 125 - Equine Instructing Techniques**

Examines philosophies, concepts and teaching-learning strategies needed for the development of sound equine instructing skills. Prerequisite: ASCI 115 or Instructor Permission.

Credits: 3.

**ASCI 134 - CREAM**

A two-semester course in which students perform the work and make the financial and management decisions associated with the CREAM dairy herd. Prerequisite: Sophomore/Junior standing; Instructor permission.

Credits: 4.

**ASCI 135 - CREAM**

A two-semester course in which students perform the work and make the financial and management decisions associated with the CREAM dairy herd. Prerequisite: Sophomore/Junior standing; Instructor permission.

Credits: 4.

**ASCI 141 - Anat&Physiol Domestic Animals**

A comprehensive review of the structure and function of domestic animals, emphasizing those of economic importance. Differences between mammalian and avian species are discussed. Prerequisite: BIOL 001; a chemistry course, or Instructor permission.

Credits: 4.

**ASCI 143 - Forage Crop Management**

(See Plant and Soil Science 143.) Alternate years, 2002-03.

Credits: 2.

**ASCI 154 - Dog Training and Behavior**

Canine behavior is thoroughly examined and applied to the training and behavior modifications of dogs. Prerequisite: ASCI Major or Instructor permission.

Credits: 3.

**ASCI 155 - FARMS Junior Planning Seminar**

The course objective is to introduce students to: 1) on-campus research and learning resources, and 2) Vermont's dairy industry through field trips, and discussion of business' strengths and weaknesses. Prerequisite: Enrollment in FARMS program.

Credits: 2.

**ASCI 156 - FARMS Senior Planning Seminar**

The course provides opportunity for students to develop and present an oral and written formal research project proposal for their Senior research project (ASCI 252). Prerequisite: Enrollment in FARMS program.

Credits: 2.

**ASCI 161 - Lab Animal Health & Disease**

An introduction to laboratory animal science and welfare covering animal care and management, the correct performance of experimental procedures, and the regulatory and legislative framework governing it. Prerequisite: ASCI 001; a Biology course, or Instructor permission.

Credits: 3.

**ASCI 171 - Zoos, Exotics & Endang Species**

From gorillas to golden lion tamarinds, how human attitudes, activities, utilization, and management strategies impact wild and captive animal populations. Prerequisite: ASCI 001 or Instructor permission.

Credits: 3.

**ASCI 195 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and business or community representative. Prerequisite: Instructor permission. Total credits towards graduation cannot exceed 15 hours.

Credits: .5-15.

**ASCI 196 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and business or community representative. Prerequisite: Instructor permission. Total credits towards graduation cannot exceed 15 hours.

Credits: .5-15.

**ASCI 197 - Undergraduate Research**

Research activity under direction of qualified staff member. Must have faculty member approval. Written proposal and report required. Prerequisite: Junior standing; Department Chair permission.

Credits: 1-3.

**ASCI 198 - Undergraduate Research**

Research activity under direction of qualified staff member. Must have faculty member approval. Written proposal and report required. Prerequisite: Junior standing; Department Chair permission.

Credits: 1-3.

**ASCI 205 - Equine Reproduction&Management**

permission.

Credits: 3.

**ASCI 211 - Summer Farm Management**

A work-study program on the modern practices associated with farm management. Taught at Miner Institute, Chazy, NY. Prerequisites: Junior, senior, or graduate standing. Not offered for graduate credit.

Credits: 4.

**ASCI 212 - Animal Genetics & Breeding**

The discussion of genetic principles and their application in the improvement of farm animals. project. Prerequisites: A course in statistics (141 preferred), Biology 1, or permission. Not offered for graduate credit.

Credits: 3.

**ASCI 213 - Dairy Herd Management**

Organization and management of the dairy herd. Practical application of feeding, reproduction, milking, and general management principles. Prerequisites: Junior standing or instructor permission. Not offered for graduate credit.

Credits: 4.

**ASCI 214 - Dairy Herd Management**

Organization and management of the dairy herd. Practical application of feeding, reproduction, milking, and general management principles. Prerequisites: Junior standing or instructor permission. Not offered for graduate credit.

Credits: 4.

**ASCI 215 - Physiology of Reproduction**

Fundamental principles of the physiology of reproduction with emphasis on, but



not limited to, farm animals. Prerequisite: ASCI 141 or instructor permission.

Credits: 4.

**ASCI 216 - Endocrinology**

Physiology of endocrine and autocrine/paracrine systems and growth factors.

Prerequisite: Course in both biology and physiology; one course in anatomy desirable. Alternate years, 2001-2002.

Credits: 3.

**ASCI 220 - Lactation Physiology**

Physiological mechanisms that control and affect lactation in domestic and laboratory animals with emphasis on dairy cattle. Includes mammary anatomy, development and health, and milk synthesis. Prerequisite: One chemistry course and one course in anatomy and physiology, or Instructor permission.

Credits: 3.

**ASCI 230 - Agricultural Policy & Ethics**

Examines American agriculture and policies from various perspectives - historical, political, ecological,

Credits: 3.

**ASCI 231 - Adv Ruminant Nutr&Dairy Feed**

Integration of microbial growth and fermentation with metabolism to define nutrient requirements in ruminant animals and application to current feeding practices in dairy production systems. Prerequisite: 110. (Not offered for graduate credit.)

Credits: 2.

**ASCI 233 - Dairy Cattle Breeding**

Setting breeding goals, making selection and mating decisions; balancing opposing forces to maximize genetic progress, and understanding the underlying genetic principles. Prerequisites: A genetics course, a statistics course, and permission. (Not offered for graduate credit.)

Credits: 2.

**ASCI 234 - Advanced Dairy Management**

An intensive, residential program at the Miner Institute providing an in-depth experiential program in the management of the dairy herd. Prerequisites: ASCI 110, 134 or 135 or equivalents. Fifteen hours. (Not offered for graduate credit.)

Credits: 15.

**ASCI 252 - FARMS Senior Project**

The students will conduct independent research focused on a project proposal that was developed and approved in previous course work (ASCI 156). Prerequisite: FARMS Program enrollment; ASCI 156.

Credits: 1-18.

**ASCI 263 - Clin Top:Companion Animal Med**

The use of case studies in companion animal medicine to develop clinical, analytical, and diagnostic skills. Prerequisite: ASCI 118; ASCI 141; Junior

standing.

Credits: 3.

**ASCI 264 - Clin Topics:Livestock Medicine**

An advanced study of diseases in cattle, sheep, goats, and pigs, emphasizing disease detection, pathobiology, treatment and prevention. Prerequisites: ASCI 118, ASCI 141, Junior standing.

Credits: 3.

**ASCI 272 - Adv Top:Zoo,Exotic,Endang Spec**

An exploration of modern zoo philosophy and ethics and the extent of human intervention necessary for the preservation Instructor permission.

Credits: 3.

**ASCI 281 - Animal Sciences Career Seminar**

Discussion and workshop activities exploring careers in animal and food sciences. Includes resume preparation and interview training. Prerequisite: Sophomore standing ASCI major. Not offered for graduate credit.

Credits: 1.

**ASCI 297 - Spec Topics in Animal Science**

Written courses, seminars or topics beyond the scope of existing offerings. See Schedule of Courses for specific titles. Prerequisite: Department Chair permission. May enroll more than once for maximum of fifteen hours.

Credits: .5-15.

**ASCI 298 - Spec Topics in Animal Science**

titles.

Credits: .5-15.

**ASCI 301 - ASCI Graduate Journal Club**

Students learn to critically read and discuss current scientific literature in terms of scientific method and merit. Pre/corequisite: Graduate standing.

Credits: 1.

**ASCI 302 - ASCI Graduate Seminar**

Topics of current faculty and graduate student interest Graduate standing.

Credits: 1.

**ASCI 303 - Research Proposal Writing**

Students develop and write a formal proposal for their graduate research project. Pre/co-requisite: Graduate standing; must be taken prior to/during the semester of student's first committee meeting.

Credits: 1.

**ASCI 391 - Master's Thesis Research**

Credits: 1-9.

**ASCI 392 - Independent Literature Rsch**

Reading and literature research culminating in a paper on a topic of current interest in Animal Sciences.

Credits: 1-6.

**ASCI 395 - Special Topics**

Credits: 1-6.

**ASCI 396 - Advanced Special Topics**

Credits: 1-6.

**ASCI 491 - Doctoral Dissertation Research**

Credits: 1-12.

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Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Animal Science Department > Faculty

## Faculty for Animal Science Department

John W. Barlow

Assistant Professor of Animal Science

Appointed in 1998

Animal Science Department

BS 1982 Lyndon State College

BS 1988 University of Connecticut

DVM 1992 University of Illinois Urbana-Champaign

Search Courses for John Barlow

Josie H. Davis

Associate Dean of the College of Agriculture and Life Sciences

Lecturer of Animal Science

Appointed in 1984

Animal Science Department

BS 1969 University of New Hampshire

MA 1984 SUNY Geneseo

PHD 2001 University of Vermont

Search Courses for Josie Davis

Patricia Ann Fobare Erickson

Senior Lecturer of Animal Science

Appointed in 2002

Animal Science Department

AS 1989 North Country Community College

BS 1993 Cornell University

DVM 1997 Cornell University

Education [Search Courses for Patricia Fobare Erickson](#)

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

---

Richard J. Grant  
Adjunct Professor of Animal Science  
Appointed in [2003](#)  
[Animal Science Department](#)  
BS 1984 [Cornell University](#)  
PHD 1988 [Purdue University](#)  
[Search Courses for Richard Grant](#)

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Elizabeth Ann Greene  
Extension Professor of Animal Science  
Appointed in [2000](#)  
[Animal Science Department](#)  
AAS 1984 [Morehead State University](#)  
BS 1986 [Morehead State University](#)  
MS 1989 [University of Arizona](#)  
PHD 1993 [Kansas State University](#)  
[Search Courses for Elizabeth Greene](#)

---

David E Kerr  
Associate Professor of Animal Science  
Appointed in [1997](#)  
[Animal Science Department](#)  
BS 1979 [McGill University](#)  
MS 1984 [University of Saskatchewan](#)  
PHD 1989 [University of Saskatchewan](#)  
[Search Courses for David Kerr](#)

---

Steve Barry Levine  
Lecturer I of Animal Science  
Appointed in [1990](#)  
[Animal Science Department](#)  
BS 1974 [Cornell University](#)  
DVM 1977 [Cornell University](#)  
[Search Courses for Steve Levine](#)

---

Zhongzong Pan  
Assistant Professor of Animal Science  
Appointed in [2004](#)  
[Animal Science Department](#)  
BS 1984 [Shandong Normal University](#)  
MS 1987 [Shandong University](#)

PHD 1997 [University of Connecticut](#)  
[Search Courses for Zhongzong Pan](#)

---

Karen Irene Plaut  
Adjunct Professor of Animal Science  
Appointed in [1990](#)  
[Animal Science Department](#)  
BS 1981 [University of Vermont](#)  
MS 1983 [Pennsylvania State University](#)  
PHD 1989 [Cornell University](#)  
[Search Courses for Karen Plaut](#)

---

David L. Rogers  
Lecturer of Animal Science Emeritus  
Appointed in [1974](#)  
[Animal Science Department](#)  
AA 1969 [Suffolk County Community College](#)  
BA 1970 [Adelphi University](#)  
MA 1992 [University of Vermont](#)  
[Search Courses for David Rogers](#)

---

Ynte H. Schukken  
Adjunct Associate Professor of Animal Science  
Appointed in [2003](#)  
[Animal Science Department](#)  
DVM 1985 [University of Utrecht](#)  
MS 1987 [Cornell University](#)  
PHD 1990 [University of Utrecht](#)  
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Jamie Shaw  
Lecturer I of Animal Science  
Appointed in [1998](#)  
[Animal Science Department](#)  
AA 1982 [Sterling College](#)  
BS 1985 [University of Vermont](#)  
[Search Courses for Jamie Shaw](#)

---

K. Rogers Simmons  
Associate Professor of Animal Science Emeritus  
[Animal Science Department](#)  
[Search Courses for K. Rogers Simmons](#)

---

Julia M. Smith  
Extension Associate Professor of Animal Science  
Appointed in [2002](#)  
[Animal Science Department](#)  
BS 1990 [Cornell University](#)  
DVM 1994 [Cornell University](#)  
PHD 2002 [Cornell University](#)  
[Search Courses for Julia Smith](#)

---

Charles J. Sniffen  
Adjunct Professor of Animal Science  
Appointed in [1992](#)  
[Animal Science Department](#)  
BS 1960 [Ohio State University](#)  
MS 1967 [University of New Hampshire](#)  
PHD 1970 [University of Kentucky](#)  
[Search Courses for Charles Sniffen](#)

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Everett Dake Thomas  
Adjunct Professor of Animal Science  
Appointed in [1983](#)  
[Animal Science Department](#)  
BS 1965 [University of Connecticut](#)  
MS 1967 [Cornell University](#)  
[Search Courses for Everett Thomas](#)

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Feng-Qi Zhao  
Associate Professor of Animal Science  
Appointed in [2001](#)  
[Animal Science Department](#)  
BS 1983 [Anhui Agriculture University](#)  
MSC 1986 [Nanjing Agriculture University](#)  
PHD 1995 [University of Alberta](#)  
[Search Courses for Feng-Qi Zhao](#)

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## Biochemistry Program

### Contact Information

University of Vermont  
 Undergraduate Biochemistry Program  
 Department of Chemistry  
 Cook Physical Sciences Building  
 82 University Place  
 Burlington, VT 05405-0125

Phone: (802) 656-2594

Fax: (802) 656-8705

Email: [Christopher.Landry@uvm.edu](mailto:Christopher.Landry@uvm.edu)

[Web Site](#)

### Overview

Biochemistry is the basic science that explores the chemical and physical properties of living organisms and the chemical changes that occur in these organisms. It is integral to the study of a variety of scientific disciplines, including biology, chemistry, microbiology, genetics, anatomy, physiology, and pharmacology. The Bachelor of Science degree in Biochemistry is an interdisciplinary undergraduate degree program offered through the College of Arts and Sciences (CAS), the College of Agriculture and Life Sciences (CAL S) and the College of Medicine (COM). It draws upon a broad set of University resources from all three colleges to provide students with a modern science-based education designed to emphasize fundamental knowledge of chemistry and biology along with advanced courses specializing in biochemistry and biomedical sciences. The Biochemistry curriculum is challenging, offering students with strong academic abilities in science an opportunity to explore upper-level courses in areas of modern biochemistry. It is designed to meet the needs of students wishing to compete in the job market at the

### In This Department

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Education

B.S. degree level as well as students planning to continue with advanced studies in a graduate or professional degree program.

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

Students may apply to the program either through CAS or CALS, which vary in their college distribution requirements. The distribution categories and the number of required courses in each category differ slightly. In CAS, students are required to fulfill distribution requirements in six of the following seven categories: foreign languages, fine arts, literature, humanities, social sciences, physical sciences and mathematics, plus complete the general requirements in non-European cultures and race relations and ethnicity in the U.S. In CALS, students are required to fulfill distribution requirements in science, humanities and fine arts, communication skills, information technology skills, quantitative skills, critical thinking skills, interpersonal skills, citizenship & social responsibility values, environmental stewardship values, and personal growth values.

Policies and General Information

Regardless of the College through which students choose to apply, all students must take a core set of basic courses in chemistry, biology, and mathematics in their first two years followed by advanced courses in biochemistry, chemistry, and/or molecular biology in their third and fourth years. Since biochemistry is a "hands-on" science, involvement of students in undergraduate research projects, most of which qualify as honors projects in either College, is strongly encouraged. For more information contact either of the co-directors of the program: Christopher Landry ([Christopher.Landry@uvm.edu](mailto:Christopher.Landry@uvm.edu)) or Christopher Francklyn ([Christopher.Francklyn@uvm.edu](mailto:Christopher.Francklyn@uvm.edu)).

Faculty and Administration

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### Affiliations

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## Biochemistry (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Biochemistry core requires satisfactory completion of [BIOL 001/BIOL 002](#) or [BCOR 011/BCOR 012](#) (Introductory Biology); [MATH 021/MATH 022](#) (Calculus); [PHYS 031/PHYS 042](#) with [PHYS 021/PHYS 022](#) (Physics); [CHEM 035/CHEM 036](#) (Introductory Chemistry); [CHEM 143/CHEM 144](#) (Organic Chemistry); [CHEM 162](#) (Thermodynamics); [BIOC/CHEM/MMG 205](#) (Biochemistry I); [BIOC/CHEM/MMG 206](#) (Biochemistry II); [BIOC/CHEM/MMG 207](#) (Biochemistry Lab); [CHEM 221](#) (Instrumental Analysis); [CHEM 282](#) (Senior Thesis); [BCOR 101](#) (Genetics); [BCOR 103](#) (Cell Biology); and advanced biochemistry electives.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).
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## Courses in Biochemistry

### BIOC 191 - Undergraduate Research

Participation in a research program currently being pursued by a faculty member of department. Written report due at end of each semester. Prerequisites: Chemistry 31, 32 or chemistry. Credit as arranged, up to four hours per semester. Credits: 1-4.

### BIOC 192 - Undergraduate Research

Participation in a research program currently being pursued by a faculty member of department. Written report due at end of each semester. Prerequisites: Chemistry 31, 32 or 35, 36. Some programs may require additional courses in chemistry. Credit as arranged, up to four hours per semester. Credits: 1-4.

### BIOC 196 - Intermediate Special Topics

Credits: 1-6.

### BIOC 205 - Biochemistry I

CHEM 205 and MMG 205. UG only. Introduction to chemistry and structure of biological macromolecules; examination of mechanisms of chemical processes in biological systems including enzyme catalysis, biosynthesis, regulation, and information transfer. Prerequisites: CHEM 142 or 144. Crosslisted with Credits: 3.

### BIOC 206 - Biochemistry II

Continuation of Biochemistry I. Biochemistry of nucleic acids; nucleic acid based processes, such as replication and transcription; cellular Prerequisite: 205. Crosslisted with CHEM 206 and MMG 206. information transfer, genomics, and proteomics. UG only. Credits: 3.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**BIOC 207 - Biochemistry Lab**

with CHEM 207 and MMG 207. UG only. Introduction to biochemical tools, including spectrometry, chromatography, and electrophoresis; DNA-modifying enzymes; computer-based structure/function exercises. Corequisites: 205 or 206. Crosslisted natural and recombinant enzyme isolation; assays of

Credits: 2.

**BIOC 212 - Biochemistry of Human Disease**

Molecular approach to genetic, metabolic, and infectious diseases; recombinant DNA technology and medicine; 141.

Credits: 3.

**BIOC 240 - Macromol Struct Prot&Nucl Acid**

Introduction to structural biology and macromolecular structure with an emphasis on protein-protein and protein-nucleic acids interactions. Prerequisites: Biology 1,2; Organic Chemistry; Junior standing recommended; (Crosslisted with MMG 240) Alternate years; not approved for graduate credit.

Credits: 3.

**BIOC 301 - General Biochemistry**

Survey for science majors. Chemistry, structure, metabolism, and function of proteins, carbohydrates, lipids; enzymes, bioenergetics and respiratory processes. Prerequisites: Chemistry 141, 142 or 143, 144, and departmental permission.

Credits: 3.

**BIOC 302 - General Biochemistry**

Survey for science majors. Amino acids, nucleic acids, protein synthesis, cellular and physiological control mechanisms. Prerequisites: Chemistry 141, 142 or 143, 144, and departmental permission.

Credits: 3.

**BIOC 305 - Medical Biochemistry**

A survey course in human biochemistry, with particular emphasis on medical applications. Prerequisite: For medical students only.

Credits: 3.

**BIOC 306 - Medical Biochemistry**

A survey course in human biochemistry, with particular emphasis on medical applications. Prerequisite: For medical students only.

Credits: 3.

**BIOC 307 - Special Topics in Biochemistry**

Areas of biochemistry not treated in concurrent advanced course offerings. Prerequisites: 301, 302 or 305-306; Chemistry 162.

Credits: 1-3.

**BIOC 308 - Special Topics**

Areas of biochemistry not treated in concurrent advanced course offerings.

Prerequisites: 301, 302 or 305-306; Chemistry 162.

Credits: 1-3.

**BIOC 309 - Laboratory Research Rotations**

Two sequential research projects in departmental faculty laboratories, composed of experimental work, an oral presentation, and a written report. (First semester).

Credits: 3.

**BIOC 310 - Laboratory Research Rotations**

presentation and a written report. (Second semester). faculty laboratories, composed of experimental work, an oral

Credits: 3.

**BIOC 351 - Proteins I: Structure&Function**

Special Topics: Introduction to concepts in protein structure and chemistry as well as exploration of ideas in a "hands on" fashion using computational resources.

Credits: 3.

**BIOC 352 - Protein:Nucleic Acid Interact**

Structure of DNA and RNA, and the structure and assembly of nucleoprotein complexes will be described using examples from prokaryotes, yeast, viruses, and mammalian cells in culture. Prerequisites: MMG 211 or equivalent, AGBI 201 or BIOC 301 and 302 or equivalent. Crosslisting: MMG 352. Alternate years.

Credits: 3.

**BIOC 353 - Proteins II: Enzymology**

General consideration of enzyme nomenclature, purification, assay, kinetics, mechanisms, cofactors, active sites, subunit structure, allosteric and regulatory properties, and control of multienzyme systems. Prerequisites: 301, 302, or 305-306; Chemistry 162.

Credits: 3.

**BIOC 354 - Nucleic Acids II**

The study of structure, composition, organization, function, synthesis, and metabolism of nucleic acids and nucleoprotein particles and matrices in eukaryotic organisms. Prerequisites: 301-302, 305-306.

Credits: 3.

**BIOC 370 - Physical Biochemistry**

related topics. Prerequisites: 301, 302 or 306; Chemistry 160 or 162.

Credits: 3.

**BIOC 372 - Cancer Biology**

Prerequisites: 301-302 or 305-306; under special circumstances , 212.

Credits: 3.

**BIOC 381 - Seminar**

A review of recent developments and current literature in the various fields of biochemistry. Prerequisite: Department permission.

Credits: 1.

**BIOC 391 - Master's Thesis Research**

Credit as arranged.

Credits: 1-12.

**BIOC 392 - Independent Literature Rsch**

Reading and literature research culminating in a paper on a topic of current interest in biochemistry.

Credits: 1-12.

**BIOC 395 - Special Topics**

Credits: 1-12.

**BIOC 396 - Advanced Special Topics**

Credits: 1-12.

**BIOC 491 - Doctoral Dissertation Research**

Credit as arranged.

Credits: 1-12.

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Engineering and  
Mathematics
- College of  
Medicine
- College of Nursing  
and Health  
Sciences
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Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Biochemistry Program > Faculty

## Faculty for Biochemistry Program

Christopher Lewis Berger

Assistant Professor of Biochemistry

Associate Professor of Molecular Physiology and Biophysics

Director of COM Graduate Education

Appointed in [1994](#)

[Biochemistry Program](#)

[Dean's Office, College of Medicine](#)

[Molecular Physiology and Biophysics Department](#)

[Neuroscience Graduate Program](#)

BA 1986 [Lawrence University](#)

PHD 1991 [University of Minnesota Twin Cities](#)

[Search Courses for Christopher Berger](#)

Robert John Kelm

Associate Professor of Biochemistry

Associate Professor of Medicine - Vascular Biology

Appointed in [2001](#)

[Biochemistry Program](#)

[Vascular Biology, College of Medicine](#)

BA 1986 [Temple University](#)

PHD 1991 [University of Vermont](#)

[Search Courses for Robert Kelm](#)

Russell P. Tracy

Associate Director of the Center for Clinical and Translational Science

Professor of Biochemistry



Education	Professor of Pathology Appointed in <a href="#">1984</a>
• Graduate College	<a href="#">Biochemistry Program</a>
• Honors College	<a href="#">Center for Clinical and Translational Science</a>
• School of Business Administration	<a href="#">Pathology - General, College of Medicine</a> BS 1971 <a href="#">Le Moyne College</a> PHD 1978 <a href="#">Syracuse University</a>
• The Rubenstein School of Environment and Natural Resources	<a href="#">Search Courses for Russell Tracy</a> <input type="checkbox"/>  <a href="#">[Location]</a>

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## Biological Science

### Contact Information

University of Vermont  
 Biological Science  
 Marsh Life Science Building  
 Burlington, VT 05405

Phone: (802) 656-5801

Fax: (802) 656-2914

Email: [IntegratedBioSci@uvm.edu](mailto:IntegratedBioSci@uvm.edu)

[Web Site](#)

### Overview

Biology is the study of life. Students can choose to pursue a Bachelor of Science in biological science, or a Bachelor of Arts in [Biology](#). As a biological science BS major, students will explore life from the workings of single cells to whole organisms. Students begin their studies with courses that provide a strong base in introductory biology, chemistry and mathematics. They proceed to a core of intermediate-level courses that include genetics, ecology and evolution, and cell and molecular biology. To meet their elective requirements, students have access to the rich array of advanced life sciences courses available across the university. The biological science degree offers students the opportunity to do collaborative research with faculty drawn from across the university, including the highly regarded College of Medicine. Students may choose from a broad range of research opportunities and internships, some as early as the first year of study.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).

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## Biological Science: Academic Offerings

- [Biological Science, Integrated \(B.S.\)](#)

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## Biological Science, Integrated (Bachelor of Science)

### Overview

Students can choose to pursue a Bachelor of Science in Biological Science through the College of Arts and Science (CAS) or through the College of Agriculture and Life Sciences (CALs). The courses that comprise the biological science major are identical for students in either college, but the colleges differ in their general distribution requirements. In CAS, students are required to fulfill distribution requirement by completing six courses from at least two of the following categories: foreign languages, fine arts, literature, humanities, social sciences, physical sciences and mathematics. In CALs, students are required to fulfill distribution requirements by completing seven courses including two in social science, two in humanities and fine arts, and courses in oral and written communication, and information technology. A course exploring race relations and ethnicity in the United States is also required by both colleges.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Integrated Biological Science B.S. core requires satisfactory completion of [BCOR 11/BCOR 12](#) - Exploring Biology, [BCOR 101](#) - Genetics, [BCOR 102](#) - Ecology and Evolution, [BCOR 103](#) - Molecular and Cell Biology; [CHEM 31/CHEM 32](#), [CHEM 141/CHEM 142](#); [PHYS 11/PHYS 12](#) or [PHYS 31/PHYS 42](#) (either sequence must include laboratory sections [PHYS 21](#) and [PHYS 22](#)); [MATH 19/MATH 20](#) or [MATH 21/MATH 22](#); [STAT 141](#) or [STAT 211](#).

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

In consultation with their academic advisor, students will design a course of study that includes an additional 26 credit hours of advanced life-science electives. From the advanced-level electives, students must complete 12 credits from courses with a statistical component, 3 credits that stress oral communication and 3 credits that stress written communication. Consult the Integrated Biological Science advisors for a list of approved advanced courses including those that fulfill the statistical, oral and written communication requirements.

Within the advanced-level elective courses students must complete a minimum of 18 credits at the 200-level and, excluding the BCOR courses, no more than 8 credits at the 100-level may be applied to the major. With advisor's permission, biologically relevant 300-level courses may be applied towards the 200-level course requirement.

## Policies and General Information

Up to 6 credits of undergraduate research in any biological disciplines may be applied toward the 26 credits of advanced electives, at least three of which must be taken at the 200-level.

## Faculty and Administration

In year 2, all students are expected to meet with their advisor to map a plan of study for completing their higher-level courses. The plan will be signed by both the advisor and student and will become a part of the student's record.

## Catalogue Archives

Students majoring in the B.S. program in Biological Science are required to take at least 84 credit hours of coursework in the College of Arts and Sciences. This does not apply to CALS students.

## Affiliations

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## Courses offered by the Biological Science

### Courses in BioCore

#### BCOR 011 - Exploring Biology

Exploring biology from cells to organisms. Topics include origins of life, ancestral organisms, uni- and multi- cellular energetics, evolution of respiration and metabolism, and the genetic code. Credit not given for both BCOR 011 and BIOL 001. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031 or CHEM 032. Credits: 4.

#### BCOR 012 - Exploring Biology

An evolutionary perspective to exploring biology. Topics include: patterns of inheritance, Darwinian evolution, evolution of biodiversity, ecology of organisms, human effects on biological systems. Credit not given for both BCOR 012 and BIOL 002. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031 or CHEM 032. Credits: 4.

#### BCOR 101 - Genetics

The basis of inheritance, covering topics from classical genetics to modern molecular studies. Analysis of genetic data emphasized, from prokaryotic, animal, and plant systems. Pre/co-requisites: Biol 1,2 or BCOR 11,12, Chemistry 31,32, organic chemistry recommended. Credits: 3.

#### BCOR 102 - Ecology and Evolution

Ecosystem and community structure; population growth; species interactions and niche dynamics; population and chromosomal genetics; speciation in fossil records; ecology of animal behavior; applied ecology. Pre/co-requisites: Biol 1,2 or

Education  
BCOR 11,12, Math 19 or 21.  
Credits: 4.

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### **BCOR 103 - Molecular and Cell Biology**

Explores the fundamental processes of life. Topics include cellular metabolism; structure and function of organelles; cell cycle; signal transduction; biology of cancer. Pre/co-requisites: Biol 1,2 or BCOR 11,12, Chemistry 31, 32 (Chemistry 141, BCOR 101 recommended).

Credits: 4.

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### **BSCI 195 - Biological Sciences Seminar**

Presentations and discussion of selected topics by students, staff, and invited guests. Suggested attendance for all First-Year and transfer students in Biological Science for one semester.

Credits: 1.

### **BSCI 196 - Biological Sciences Seminar**

Presentations and discussion of selected topics by students, staff, and invited guests. Suggested attendance for all First-Year and transfer students in Biological Science for one semester.

Credits: 1.

### **BSCI 197 - Undergrad Research**

Special study and research activity under direction of qualified staff member. Requires written proposal and final project report. Prerequisite: Research advisor and Department Chair permission. Credit as approved with maximum of six hours for undergraduate program.

Credits: 1-6.

### **BSCI 198 - Undergrad Research**

Special study and research activity under direction of qualified staff member. Requires written proposal and final project report. Prerequisite: Research advisor and Department Chair permission. Credit as approved with maximum of six hours for undergraduate program.

Credits: 1-6.

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## Faculty for Biological Science

Cynthia Jean Forehand  
 Interim Dean of Graduate College  
 Professor of Biology  
 Professor of Neurological Sciences  
 Appointed in [1987](#)  
[Biological Science](#)  
[Graduate College](#)  
[Neurological Sciences](#)  
[Neuroscience Graduate Program](#)  
 BS 1975 [University of Nebraska Lincoln](#)  
 PHD 1981 [University of North Carolina Chapel Hill](#)  
[Search Courses for Cynthia Forehand](#)

Donald Arthur Stratton  
 Co-Director of Integrated Biological Science  
 Senior Lecturer of Plant Biology  
 Appointed in [1998](#)  
[Biological Science](#)  
[Plant Biology Department](#)  
 BA 1981 [Earlham College](#)  
 PHD 1988 [SUNY Stony Brook](#)  
[Search Courses for Donald Stratton](#)

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## Botany Department

### Contact Information

University of Vermont  
 Botany Department  
 Marsh Life Science Building  
 Burlington, VT 05405

Phone: (802) 656-2930  
 Fax: (802) 656-0440  
 Email: [Lillian.Reade@uvm.edu](mailto:Lillian.Reade@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).

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- [Botany \(Minor\)](#)
- [Botany: Ecology and Evolutionary Biology of Plants \(B.S.\)](#)
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## Botany (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[MATH 021/MATH 022](#); or [MATH 021](#) and [STAT 141](#) or [STAT 211](#); or [MATH 019/MATH 020](#) and [STAT 141](#) or [STAT 211](#); [PHYS 021/PHYS 022](#); and [PHYS 011/PHYS 012](#) or preferably [PHYS 031/PHYS 042](#); [CHEM 042](#) or preferably [CHEM 141/CHEM 142](#); [BIOL 001/BIOL 002](#); or [BCOR 011](#), [BCOR 012](#); [BCOR 101](#), [BOT 104](#), [BOT 108](#); and [BOT 109](#) or [BCOR 102](#); two additional semester courses in botany, at least one at the 200-level. Six credits of modern foreign language are strongly recommended. Students may petition the department to substitute other courses for certain requirements in the planning of individual programs.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Agriculture and Life Sciences](#).
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## Botany (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Botany Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

At least 15 hours of course work to include [BOT 004](#) or [BIOL 001](#) or [BIOL 002](#); plus three additional courses in botany, at least one at the 200-level.

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## Botany: Ecology and Evolutionary Biology of Plants (Bachelor of Science)

### Overview

This concentration offers broad training in organismal biology, with emphasis on population and physiological ecology, community structure and function, and plant evolution and diversity. Students choose from a menu of options in fulfilling most requirements; this flexible curriculum enables students to select from a wide range of courses while achieving proficiency in ecology and evolution of plants. Students are encouraged to initiate an independent research project with one of our faculty.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Botany Core Courses](#)

### Specific Requirements

In addition to the basic course requirements for our departmental major, this concentration has the following requirements and electives:

Concentration Requirements (28 hours): [BOT 108](#), [BOT 109](#), [BCOR 102](#), [CHEM 031](#), [CHEM 032](#), [CHEM 141](#), [CHEM 142](#).

Concentration Electives (12-24 hours): At least six courses from the following, at least two of which must be 200-level Botany courses: [AGBI 201](#), [AGBI 202](#), [BIOL 203](#), [BIOL 238](#), [BIOL 254](#), [BIOL 264](#), [BIOL 270](#), [BOT 117](#), [BOT 205](#), [BOT 209](#), [BOT 213](#), [BOT 223](#), [BOT 232](#), [BOT 234](#), [BOT 241](#), [BOT 260](#), [BOT 261](#), [ENVS 101](#), [ENVS 201](#), [FOR 021](#),

- Education [FOR 120](#), [FOR 121](#), [FOR 122](#), [FOR 225](#), [FOR 228](#), [FOR 234](#). [GEOG 081](#). [GEOL 001](#), [GEOL 055](#), [GEOL 151](#), [GEOL 101](#). [MMG 220](#). [NR 220](#), [NR 224](#), [NR 260](#). [PSS 151](#), [PSS 161](#), [PSS 215](#).
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## Botany: General Botany (Bachelor of Science)

### Overview

This concentration offers broad training at all levels of plant biology ranging from molecular biology to plant communities. Students have the flexibility to study plants from many perspectives and to understand how the diverse areas are interrelated. Students, in consultation with a faculty advisor, can choose courses that meet their individual needs and interests. Students are encouraged to perform undergraduate research working directly with departmental faculty on laboratory or field projects in plant biology.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Botany Core Courses](#)

### Specific Requirements

In addition to the basic course requirements for our departmental major, this concentration has the following requirements and electives:

Concentration Requirements (29 hours): [BOT 108](#) or [BOT 109](#), [BCOR 102](#), [CHEM 031](#), [CHEM 032](#), [CHEM 141](#), [CHEM 142](#). Physics - one additional semester, with laboratory.

Concentration Electives (1-20 hours): Botany - 5 electives, at least two of which are at the 200-level.

### Affiliations

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## Botany: Plant Molecular Biology (Bachelor of Science)

### Overview

This concentration focuses on the inner workings of plants at the molecular, cellular, and organismal level. Although the basic cellular functions of plants are the same as those of animals, plants face unique challenges and have evolved interesting solutions. To understand the unique biology of plants within a context of what is known about other organisms, courses examining the biochemistry and molecular biology are supplemented by courses on the molecular functions and development of other organisms. In addition to coursework, students are encouraged to get hands-on laboratory experience by taking advantage of the many opportunities to participate in independent research with department faculty.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
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### Specific Requirements

In addition to the basic course requirements for our departmental major (listed above), this concentration has the following requirements and electives:

Concentration Requirements (40 credits): [AGBI 201](#), [AGBI 202](#), [AGBI 220](#), [BOT 261](#), [CHEM 031/CHEM 032](#) or [CHEM 035/CHEM 036](#); [CHEM 141](#), [CHEM142](#), [MMG 101](#), [BCOR 103](#). Physics - an additional semester with lab ([PHYS 031/PHYS 042](#) or [PHYS 011/PHYS 012](#)).

- Education
- Concentration Electives (8-15 credits): At least four courses from the following list: [AGBI 191](#), [AGBI 221](#), [AGBI 230](#), [AGBI 250](#), [ASCI 230](#), [BOT 109](#), [BOT 117](#), [BOT 205](#), [BOT 256](#), [BOT 257](#), [BIOL 263](#), [BIOL 265](#), [MMG 220](#), [MMG 225](#), [MMG 240](#), [NFS 243](#), [PHRM 272](#), [PHRM 290](#).
- Graduate College
  - Honors College

### Affiliations

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## Botany Core Courses

### Overview

Options for our Majors: Our students select from three concentrations: General Botany, Plant Molecular Biology, and Ecology and Evolutionary Biology of Plants. Basic courses that are required for all the concentrations, and courses specific for each concentration are listed below. Students may petition the department to substitute similar courses for those listed. Study of modern foreign languages is encouraged for those attracted to the many international career opportunities in plant biology.

### Botany Required Core Courses

Basic Course Requirements (29-32 credits) - required for all concentrations: [BCOR 011/BCOR 012](#). [BOT 104](#), [BCOR 101](#). Chemistry - see specific concentration. [MATH 013/MATH 014](#) or [MATH 019/MATH 020](#) or [MATH 021/MATH 022](#). Physics - one semester with laboratory. Statistics - one course ([STAT 141](#), [STAT 211](#), or [NR 140](#)).

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## Courses in Botany

### BOT 004 - Intro to Botany

Structure, function, and reproduction of plants. Fundamental aspects of plant science with implications of Credit not given for both Botany 4 and Biology 1.

Credits: 4.

### BOT 006 - The Green World

Evaluation of the impact of plants on the aesthetic, cultural, social, medical, and religious lives of peoples of the world. Botany and Biological Science majors will not receive credit for Botany 6 as part of program distribution requirements.

Credits: 3.

### BOT 095 - Special Topics

Credits: 1-4.

### BOT 096 - Special Topics

Credits: 1-4.

### BOT 104 - Plant Physiology

Study of the plant as a whole, growth and development, water and mineral relations, environmental factors, and regulatory processes. Prerequisites: One year of plant or biological science, beginning chemistry recommended, or instructor's permission.

Credits: 4.

### BOT 108 - Morph & Evol Vasc Pl

Evolutionary relationships of vascular plants as inferred from plant structure, ecology, geography, and reproductive biology. Synthesis includes both fossil and extant groups. Prerequisite: 4 or Biology 1, 2. Alternate years.

Credits: 4.

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**BOT 109 - Systematics & Phylogeny**

Classification; evolution of flowering plants; characterization and recognition of major families; species and generic concepts; biosystematics; taxonomic keys; preparation of herbarium specimens. Prerequisite: 4 or Biology 1, 2.

Credits: 4.

**BOT 132 - See BCOR 101**

Introduction to transmission and molecular genetics with reference to prokaryotic, animal, and plant systems. Prerequisites: Biology 1, 2; Chemistry 31, 32.

Credits: 3.

**BOT 151 - Plant Anatomy**

Credits: 3.

**BOT 160 - See BCOR 102**

Interactions among plants and their environment. Topics covered include individuals, populations, communities, and ecosystems. Field methods and experimental design covered; ecological applications. Prerequisite: Botany 4 or Biology 1, 2; Math 19 or 21 recommended. Four Hours. Molofsky.

Credits: 0.

**BOT 193 - College Honors**

(For Arts and Sciences seniors.)

Credits: 3.

**BOT 194 - College Honors**

(For Arts and Sciences seniors.)

Credits: 3.

**BOT 195 - Special Topics**

Credits: 1-3.

**BOT 197 - Undergrad Research**

Individual projects under direction of a faculty member. Project may involve original research, readings, or apprenticeships. Prerequisites: Junior or senior standing, departmental permission. One to six hours.

Credits: 1-6.

**BOT 198 - Undergrad Research**

Individual projects under direction of a faculty member. Project may involve original research, readings, or apprenticeships. Prerequisites: Junior or senior standing, departmental permission. One to six hours.

Credits: 1-6.

**BOT 205 - Mineral Nutrition of Plants**

Role of essential elements for plant growth including classical and modern approaches to the study of ion availability and transport. Prerequisite: BOT 104.

Credits: 3.

**BOT 209 - Biology of Ferns**

Evolutionary biology; a survey of New England ferns and discussion of their phylogenetic relationships; current research emphasizing morphological, biogeographical, genetic, and phytochemical aspects of speciation. Prerequisite: 108; 101 or 132 recommended. Alternate years.

Credits: 3.

**BOT 213 - Plant Communities**

Plant sociology; structure and organization of the plant community; sampling methods and analysis of data; climatic and edaphic factors; field work.

Prerequisite: 109 or departmental permission.

Credits: 0-3.

**BOT 223 - Fundamentals of Field Science**

Pattern and process in natural systems. Weekly discussion of unifying questions in science. Field labs teach sampling and analysis of vegetation, soils, and animals.

Prerequisite: Graduate standing or several university courses in earth sciences, life sciences, and chemistry.

Credits: 3.

**BOT 226 - Environmental Problem Solving**

and map and inventory forested natural areas as they apply problem solving skills to Vermont environmental project. Prerequisites: Instructor permission. One to three hours.

Credits: 1-3.

**BOT 229 - Water Relations of Plants**

See Forestry 299.

Credits: 3.

**BOT 232 - Botany Field Trip**

Trips to selected environments outside Vermont, led by faculty members representing different fields of botany. Overall, integrated approach to ecology, structure, and function.

Credits: 1.

**BOT 234 - Ecology of Freshwater Algae**

Community, population and physiological ecology of algae. Topics include taxonomy; diversity; distribution and seasonal succession; productivity and grazing; growth kinetics; and competitive and synergistic reactions. Prerequisites: Botany 160 or Natural Resources 103 or Biology 102. Alternate years.

Credits: 3.

**BOT 241 - Tropical Plant Systematics**

Principles and methods of angiosperm phylogeny. Recent systematic and evolutionary research on flowering plants; survey of tropical flowering plant families. Student presentations on recent research. Prerequisite: 109. Alternate years.

Credits: 4.

**BOT 250 - Microtechnique**

Theory and practice in the preparation of biological materials for anatomical and cytological study, including histochemistry and photomicrography. Prerequisites: Introductory chemistry; some knowledge of organic chemistry,

Credits: 3.

**BOT 251 - Principles of Light Microscopy**

Introduction to the optics, construction, and care of the light microscope. Theory of phase and interference contrast, fluorescence, and video methods. Prerequisite: One year of physics or permission.

Credits: 1.

**BOT 252 - Molecular Genetics II**

How cells control the flow of genetic information from gene into active gene product. Distinctions between quiescent and active genes, mechanisms of genetic communication/regulation. Prerequisites: Biology 101 or Agricultural Biochemistry 201 or Biochemistry 301, or equivalent; others by instructor's permission.

Credits: 3.

**BOT 254 - Genetics of Fungi**

Understanding the classical and molecular genetics of fungi with respect to their contributions in agriculture, basic genetics, biotechnology, industry, recombinant DNA, and gene expression. Prerequisites: Biology 101, or Agricultural Biochemistry 201 or Biochemistry 301 or equivalents; others by instructor's permission.

Credits: 3.

**BOT 256 - Adv Plant Genetics**

Review of major topics in higher plant genetics and cytogenetics. Designed to be applied to the systematics, breeding, and gene engineering of higher plants. Prerequisite: 132 or Biology 101.

Credits: 3.

**BOT 257 - Plant Cell Physiology**

Detailed study of photosynthesis, plant cell membrane function, and plant cell growth. Prerequisites: 104, Chemistry 141, 142 or Chemistry 42, Physics 11, 12 or 31, 42. Alternate years.

Credits: 4.

**BOT 258 - Biology of the Fungi**

microbiological technique and laboratory culture of the Taxonomy, genetics, physiology, ecology, and economic importance of the fungi. Representatives of each major group are explored with respect to the above. Includes fungi. Prerequisites: 101 or 104 or 132 or permission.

Credits: 4.

**BOT 260 - Plant Population Biology**

Study of how environmental and life-history characteristics of plants determine the dynamics and evolution of populations. Prerequisites: Biology 102 or Botany 160 or instructor permission. UG only.

Credits: 3.

**BOT 261 - Plant Growth & Development**

Concepts in plant structure and development. Biophysics of plant structure and pattern-formation. Introduction to methods of plant microscopy and microtechnique. Prerequisites: 104, 108, Intro. Physics or permission.

Credits: 4.

**BOT 281 - Botany Seminar**

Presentations of personal research by faculty, graduate students, and outside guest speakers. Attendance required of botany graduate students and seniors in botanical research programs. Without credit.

Credits: 0.

**BOT 282 - Botany Seminar**

See Botany 281.

Credits: 0.

**BOT 295 - Special Topics**

For advanced students within areas of expertise of faculty. Aspects of ecology, physiology, genetics, cytology, bryology, pteridology, paleobotany, photobiology, membrane physiology, and cell biology. Prerequisite: Departmental permission.

Credits: 0-6.

**BOT 296 - Special Topics**

Special Topics. UG only.

Credits: 1-6.

**BOT 301 - Cell & Molecular Biology**

Advanced survey of cell organelles, their composition, origin, and the relationship between their structure and function. Emphasis on recent literature and current controversies. Prerequisites: Chemistry 142, graduate standing in biology or permission. Cross-listing: Cell and Molecular Biology 301.

Credits: 3.

**BOT 311 - Field Naturalist Practicum**

Landscape analysis; planning and designing field projects; integrated problem solving. Prerequisites: Enrollment in the Field Naturalist program. Variable hours up to three.

Credits: 0-3.

**BOT 381 - Problems in Modern Botany**

Subject matter varies. Topics will stress current graduate student and staff research interests in a journal review or presentation-discussion format.

Prerequisite: Permission.

Credits: 1-4.



**BOT 391 - Master's Thesis Research**

Credit as arranged.

Credits: 1-10.

**BOT 392 - Master Project Rsch**

Credit as arranged.

Credits: 0-3.

**BOT 491 - Doctoral Dissertation Research**

Credit as arranged.

Credits: 1-10.

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## Faculty for Botany Department

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## Community Development and Applied Economics Department

### Contact Information

*University of Vermont  
Community Development and Applied Economics Department  
205 Morrill Hall  
146 University Place  
Burlington, VT 05405-0106*

Phone: (802) 656-2001

Fax: (802) 656-1423

Email: [cdae@uvm.edu](mailto:cdae@uvm.edu)

[Web Site](#)

### Overview

The Department of Community Development and Applied Economics (CDAE) uses economic, social, and environmental principles to identify needs, analyze problems and advance sustainable solutions in partnership with local and global organizations and communities. Students in CDAE focus on the application of economic principles and their relationship to leadership and management, economic and business development, environmental sustainability, and social responsibility.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).

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## Community Development and Applied Economics Department: Academic Offerings

- [Agricultural and Resource Entrepreneurship \(B.S.\)](#)
- [Agricultural and Resource Entrepreneurship \(Minor\)](#)
- [Applied Design \(Minor\)](#)
- [Community and International Development \(B.S.\)](#)
- [Community and International Development \(Minor\)](#)
- [Consumer Affairs \(Minor\)](#)
- [Consumer and Advertising \(Minor\)](#)
- [Public Communication \(B.S.\)](#)

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## Agricultural and Resource Entrepreneurship (Bachelor of Science)

### Overview

With Vermont as your laboratory, you will acquire knowledge in applied economics and skills management, strategic planning, marketing, and public policy related to developing or operating a small, natural-resource based business.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Community Development and Applied Economics General Requirements](#)

### Specific Requirements

Students must complete [BSAD 065](#), [CDAE 166](#), [CDAE 167](#), [CDAE 168](#), [CDAE 253](#), [CDAE 254](#), [CDAE 255](#), [CDAE 264](#), [CDAE 266](#), [CDAE 267](#).

### Affiliations

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## Agricultural and Resource Entrepreneurship (Undergraduate Minor)

### Specific Requirements

Any student interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Fifteen to sixteen credits including 12 credits in required courses [CDAE 166](#), [CDAE 167](#), [CDAE 168](#), [CDAE 266](#); one course three to four credits from the following restricted electives: [CDAE 157](#), [CDAE 264](#), [CDAE 267](#).

*Arts and Sciences Majors:* This minor is also available for Arts and Sciences students. Courses required are: [CDAE 061](#), [CDAE 166](#), [CDAE 167](#), [CDAE 168](#), and [CDAE 266](#). Arts and Sciences students should note that [BSAD 065](#), [MATH 019](#), and [CS 002](#) or instructor permission are listed as prerequisites for some of the upper level courses.

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## Applied Design (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Nine credits in required courses: [CDAE 015](#); [CDAE 001](#) or [CDAE 016](#), [CDAE 101](#) or [CDAE 231](#) plus two additional elective courses at or above the 100-level, approved by the student's advisor to define an applied design focus for a total of 15 credits.

*Arts and Sciences Majors:* Nine of the 15 hours must be at the 100-level or above. The Applied Design minor is not available to students majoring or minoring in Studio Art.

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## Community and International Development (Bachelor of Science)

### Overview

Building on a strong, applied economics base, you acquire the knowledge, skills and values necessary to address rural economic and policy problems locally and globally.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Community Development and Applied Economics General Requirements](#)

### Specific Requirements

[CDAE 166](#), [CDAE 253](#), [CDAE 254](#), [CDAE 255](#), and 6 of the following 8 courses: [CDAE 156](#), [CDAE 171](#), [CDAE 218](#), [CDAE 237](#), [CDAE 250](#), [CDAE 251](#), [CDAE 272](#), [CDAE 283](#).

### Affiliations

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## Community and International Development (Undergraduate Minor)

### Specific Requirements

Any student interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

A total of 15 credit hours with 12 from required courses [CDAE 002](#), [CDAE 061](#), [CDAE 102](#) and either [CDAE 171](#), [CDAE 296](#) or [CDAE 273](#); and three hours from a list of restricted electives as follows: [CDAE 166](#), [CDAE 167](#), [CDAE 237](#), [CDAE 251](#), [CDAE 255](#), or [CDAE 272](#).

*Arts and Sciences Majors:* This minor is also available for Arts and Sciences students. Courses required are: a total of 15 credits with 12 from required courses [CDAE 002](#), [CDAE 061](#) or [EC 012](#), [CDAE 102](#), and either [CDAE 171](#), [CDAE 273](#), or [CDAE 296](#); and three hours from a list of restricted electives as follows: [CDAE 166](#), [CDAE 167](#), [CDAE 237](#), [CDAE 251](#), [CDAE 255](#), [CDAE 272](#), [EC 140](#).

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## Consumer Affairs (Undergraduate Minor)

### Specific Requirements

Any student interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Fifteen credits including [CDAE 127](#), [CDAE 128](#), [CDAE 157](#), [CDAE 159](#); plus one of the following restricted electives: [CDAE 102](#), [CDAE 250](#), or [CDAE 255](#). *Note: CDAE majors must take CDAE 250 as their "elective."*

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## Consumer and Advertising (Undergraduate Minor)

### Specific Requirements

Any student interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Fifteen credits including [CDAE 015](#), [CDAE 127](#), [CDAE 128](#), [CDAE 183](#), and an advisor-approved elective.

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## Public Communication (Bachelor of Science)

### Overview

Majors in Public Communication learn how communication systems work, how to solve complex communication problems and manage information, and how to apply knowledge to solve communication problems in an increasingly dynamic, global society.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Community Development and Applied Economics General Requirements](#)

### Specific Requirements

Students must complete [CDAE 124](#), [CDAE 129](#), [CDAE 130](#), [CDAE 250](#), [CDAE 252](#), [PA 206](#) and 4 of the following 9 courses: [CDAE 128](#), [CDAE 159](#), [CDAE 168](#), [CDAE 231](#), [CDAE 251](#), [CDAE 195/ /PA 295](#), [SOC 143/SOC 243](#), [POLS 137](#), [CMSI 160](#). □

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Community Development and Applied Economics Department](#).



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## Community Development and Applied Economics General Requirements

The following courses are required of all students:

### CALS Core Curriculum

Students must complete the CALS Core Curriculum with the following specifications:

- Social Science
  - a. POLS 021
  - b. EC 011
- Communication Skills
  - a. Oral: [AGRI 183](#) (or Foundations) required
  - b. Written: ENGS 001 required
  - c. One additional communications course (either oral or written)
- Information Technology
  - a. [AGRI 085](#) (or Foundations) required
- Quantitative Skills
  - a. Mathematics: MATH 019 required
  - b. Statistics: STAT 141 required
  - c. One additional mathematics or statistics applications course

### CDAE Requirements

- CDAE Courses: [CDAE 002](#), [CDAE 015](#), [CDAE 061](#), [CDAE 102](#), [CDAE 127](#), [CDAE 157](#), and internship/service learning requirement
- Major specific courses (ARE 32 credits, CID 30 credits, PC 30 credits)
- Minor or advisor-approved Focus (12-18 credits)

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## Courses in Cmty Dev & Apld Econ

### CDAE 001 - Drafting and Design Drawing

Basic drafting methods and procedures of architectural, three-view, oblique, isometric, and perspective drawings. Creating freehand pictorial presentation drawings.

Credits: 3.

### CDAE 002 - World Food,Population&Develop

Agricultural development emphasizing natural and economic phenomena and the effect of food supplies on population trends and policies.

Credits: 3.

### CDAE 006 - Energy Alternatives

Concepts of energy, work, and power. Energy conversion, utilization, and conservation. Alternatives to fossil fuels including solar, wind, biomass, etc. Energy systems for rural areas.

Credits: 3.

### CDAE 015 - Design Strategies

Introduction and analysis of aesthetics and function of design in the context of communications and marketing, the built environment, and community development.

Credits: 3.

### CDAE 016 - Sketching and Illustration

Techniques of sketching, color rendering, and scale drawing in relation to nature forms, the human figure, and interior space. Preparation of portfolio. Prerequisite: 15. Spring.

Credits: 3.

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### **CDAE 030 - Des Studio Skills:Woodworking**

Common methods, processes, materials, and equipment employed in transforming wood into useful products.

Credits: 3.

### **CDAE 035 - Des Stdy Skills:Weldng/Metl Fab**

Skills, tools, and processes to cut, shape, and join metallic materials intended for artisans, designers, and craftpersons. Emphasis on welding, machining, and metal fabrication.

Credits: 3.

### **CDAE 061 - Prin A&R&Community Developmt Ec**

Introduction to principles of microeconomics and their application to food and agricultural markets, resource management, and community development.

Credits: 3.

### **CDAE 091 - Introductory Special Topics**

Credits: 1-3.

### **CDAE 101 - Computer Aided Drafting&Design**

Using a computer to create, manipulate, and record drafting and design concepts, symbols, and conventions to prepare technical and/or presentation drawings.

Prerequisite: CDAE 001 or Instructor permission.

Credits: 1-3.

### **CDAE 102 - Sustainable Community Dev**

Introduction to perspectives and methods used to develop healthy communities that are economically, socially, and environmentally sustainable with rural and urban, U.S. and international examples. Prerequisites: CDAE 61 or equivalent, and by permission.

Credits: 3.

### **CDAE 110 - Entrepreneurial Indust Prodctn**

Principles, concepts, methods employed in organizing capital, labor, tools, machines for producing products. Students function as labor source and mass produce and market a product. Prerequisite: CDAE 030 or CDAE 035, or CDAE 166, or Instructor permission.

Credits: 3.

### **CDAE 117 - History of Costume**

(See Theatre 41.) Prerequisite: Art 6 or Theatre 1. Fall

Credits: 3.

### **CDAE 127 - Consumer,Markets&Public Policy**

Analysis of consumer choices through the examination of consumer behavior theories, current marketplace issues and public policy. Prerequisites: Sophomore standing.

Credits: 3.

**CDAE 128 - The Consumer & Advertising**

Examination of advertising strategy and how it impacts consumers and the economy. Extensive application of critical analysis to actual advertising campaigns from development through evaluation. Prerequisite: Junior standing. Fall.

Credits: 3.

**CDAE 129 - Communication Law**

Legal aspects of the mass media, including: freedom of speech; libel; privacy; obscenity; copyright and trademark; advertising. Pre/co-requisites: Sophomore standing.

Credits: 3.

**CDAE 131 - Light Frame Buildings**

MATH 010.

Credits: 3.

**CDAE 156 - Law, Ethics & Responsibility**

The roles of law and ethics in guiding the actions of individuals and organizations, and the impact of those actions on others, including consumers, employees, communities, and developing countries. Prerequisite: Sophomore standing. Spring.

Credits: 3.

**CDAE 157 - Consumer Law and Policy**

Law as an expression of public policy to protect consumers in the marketplace. Emphasis on laws prohibiting deceptive advertising and marketing practices. Prerequisites: Sophomore standing.

Credits: 3.

**CDAE 158 - Personal and Family Finance**

An examination of personal and family financial management concepts and topics within various income levels and stages in the life cycle. Prerequisite: EC 011 or equivalent. Fall.

Credits: 3.

**CDAE 159 - Consumer Assistance Program**

Jointly sponsored by UVM and Vermont Attorney General. Under supervision of an attorney, students respond to phone and mail requests for consumer information and handle consumer complaints. Prerequisite: Sophomore standing. Three to six hours.

Credits: 3-6.

**CDAE 166 - Intro A&R Entrepreneurship**

operating an agricultural or resource-based

Credits: 3.

**CDAE 167 - Fin Mgmt: A&R Entrepreneurship**

Financial management concepts for agricultural and resource-based businesses, with emphasis on interactions between business and personal financial decisions



faced by entrepreneurs. Prerequisites: BSAD 65, CDAE 166 or permission.  
Credits: 3.

**CDAE 168 - Marketing:A&R Entrepreneurship**

Marketing concepts and methods and their applications in agricultural and resource businesses. Focus on development of marketing plan and its use in guiding business operations. Prerequisites: CDAE 61, 166.  
Credits: 3.

**CDAE 169 - Small Business Computer Appl**

Using the microcomputer to accomplish tasks specific to small businesses. One credit modules may include spreadsheets, databases, presentations, mapping markets, WWW, project management and local area networks. Prerequisites: 85 or equivalent. One to six hours.  
Credits: 1-6.

**CDAE 170 - Solar Strategies Bldg Constrct**

Passive, active, and hybrid heating; photovoltaic electric systems. Physical principles, site evaluation, component and system analysis, materials selection, and design of low-cost systems. Prerequisite: Math 10 or permission.  
Credits: 3.

**CDAE 171 - Community&Int'l Econ Transform**

Models of economic development, including constraints to economic transformation and policy approaches and strategies for promoting social welfare and sustainable development. Prerequisites: 2,61 or equivalent.  
Credits: 3.

**CDAE 175 - Farm Credit Fellowship Prac/Sem**

Acquaints students who have a strong interest in farm management and farm finance with financial intermediaries serving agriculture. Prerequisite: CDAE 167.  
Credits: 3.

**CDAE 180 - Real Estate Appraisal**

Basic concepts and methods of measuring real estate values. Prerequisite: CDAE 061 or equivalent, or Instructor permission.  
Credits: 3.

**CDAE 191 - Special Problems**

Independent projects under direction of a faculty member. Includes undergraduate teaching assistance. 291 number for juniors and seniors only. Prerequisites: Permission. One to six hours (maximum).  
Credits: 1-6.

**CDAE 195 - Special Topics**

Lectures or readings on contemporary issues in Community Development and Applied Economics. Enrollment may be more than once, up to twelve hours.  
Credits: 0-12.

**CDAE 196 - Field Experience/Practicum**

Professionally-oriented field experience under joint supervision by faculty and business or community representative. Total credit toward graduation in 196 and 296 cannot exceed 15 hours. Prerequisites: Permission. One to 15 hours.

Credits: 1-15.

**CDAE 205 - Rural Comm in Modern Society**

Cross-listed with: SOC 205.

Credits: 3.

**CDAE 207 - Markets, Food & Consumers**

Learn how producers, processors, wholesalers, cooperatives, retailers, consumers, and governments affect the movement of food and fiber products through the production-marketing chain. Prerequisite: CDAE 061 or equivalent.

Credits: 3.

**CDAE 208 - Agricultural Policy and Ethics**

An examination of American agriculture and policies from various perspectives - historical, political, ecological, technological, social, economic, and ethical. Emphasis on contemporary issues, policy options, and future development.

Prerequisites: 61 or equivalent, permission. Fall.

Credits: 3.

**CDAE 210 - Small Bus Mktg & Entrepreneur**

Students learn through participation in a series of guest lectures and field trips, the challenges, opportunities, and strategies faced and employed by small business entrepreneurs in the area of marketing. Prerequisite: 168 or 207. Spring. (Not offered for graduate credit.)

Credits: 3.

**CDAE 218 - Community Ldrshp,Org&Inst Dev**

Role of civic engagement, leadership, and social and political institutions in a community standing, CDAE 102, or permission. development context. Special attention given to problems of formulation and implementation of alternative change strategies. Prerequisites: Jr

Credits: 3.

**CDAE 231 - Applied Computer Graphics**

Directed research, planning, design, technical experimentation, production and evaluation for computer-generated design application. Prerequisite: 15 or permission.(Not offered for graduate credit.)

Credits: 3.

**CDAE 237 - Economics of Sustainability**

Economic analysis that integrates natural resource

Credits: 3.

**CDAE 250 - Applied Research Methods**

Methods used in the collection and analysis of qualitative and quantitative data.

Critical review of literature, and data collection, analysis, and interpretation for descriptive, inferential, and evaluation research. Prerequisites: Statistics 141 or permission. UG only.

Credits: 4.

**CDAE 251 - Contemp Policy Iss:Comm Devel**

policy issues such as affordable housing, land use and sprawl, alternative energy, environmental sustainability, effective community planning, social and environmentally responsible business. Prerequisites: CDAE 102 or permission.

Credits: 3.

**CDAE 253 - Macroeconomics for Appl Econ**

Explore macroeconomic principles and concepts as they affect individuals and businesses in local, regional, national, and

Credits: 3.

**CDAE 254 - Microeconomics for Appl Econ**

Prerequisites: 61 or equivalent. Math 19, or permission. The study of economic choices of individuals and firms, and the analysis of competitive and noncompetitive markets. Emphasis on application of intermediate microeconomic theory

Credits: 3.

**CDAE 255 - Applied Consumption Economics**

Analysis and application of micro-economic principles as they relate to consumers, including consumption and saving, investments in human capital, market work, household production, and leisure choices. Prerequisites: ECON 172.

Credits: 3.

**CDAE 258 - Consumer Policy:Iss & Analysis**

Examination and analysis of contemporary issues underlying a variety of consumer policies such as health care, income inequality, and consumer protection. Prerequisites: 254 or permission, Political Science 21 or similar course. Spring. (Not offered for graduate credit.)

Credits: 3.

**CDAE 264 - Risk Anyl&Forecast Procedures**

Analytical concepts and skills and their applications in risk analysis related to agricultural and resource markets focusing on decision making processes. Prerequisite: STAT 141, CDAE 061, MATH 019, or Instructor permission.

Credits: 3.

**CDAE 266 - Dec Making:A&R Entrepreneurshp**

Major topics include linear programming, risk and uncertainty, inventory decisions, and e-commerce.

Credits: 3.

**CDAE 267 - Strat Plan:A&R Entrepreneurshp**

Applications of marketing, finance, and management strategies. Drafting a

simulated business plan for rural entrepreneurs and economic development.

Prerequisites: ARE majors or minors, or with instructor's permission; senior standing.

Credits: 4.

**CDAE 272 - Int'l Economic Development**

International trade, finance, investment and or instructor's permission. with 273.

Credits: 3.

**CDAE 273 - Project Development & Planning**

the economy as a whole. Prerequisite: 171 or

Credits: 3.

**CDAE 287 - Spatial Analysis**

Credits: 3.

**CDAE 291 - Special Problems**

Independent projects under the direction of a faculty member. Includes undergraduate teaching assistance. Prerequisite: Departmental permission.

Students may enroll more than once for a maximum of 12 hours. One to six hours.

Credits: 1-6.

**CDAE 292 - Seminar**

Reports, discussions, and investigations in selected fields. May enroll more than once up to six hours. One to three hours.

Credits: 1-3.

**CDAE 295 - Special Topics**

Lectures or readings on contemporary issues in Community Development and Applied Economics. Enrollment may be more than once, up to twelve hours.

Credits: 0-12.

**CDAE 296 - Field Experience/Practicum**

Professionally-oriented field experience under joint supervision by faculty and business or community 296 cannot exceed 15 credits. UG only.

Credits: 1-18.

**CDAE 297 - Undergraduate Research**

Work on a research problem under direction of a staff member. Findings submitted in written form as prescribed by the department. Prerequisite: Senior standing.

Credits: 3.

**CDAE 298 - Undergraduate Research**

member. Findings submitted in written form as prescribed by the department.

Prerequisite: Senior standing.

Credits: 3.

**CDAE 351 - Research Methods**

Prerequisite: Three hours of Statistics. Developing research projects with the

scientific methods; evaluating alternative literature review, sampling, surveying, and analytic methods; and reporting the results.

Credits: 3.

**CDAE 354 - Advanced Microeconomics**

Principles and applications of advanced microeconomics: consumer and market demand, firm and market supply, perfect and imperfect markets, partial and general equilibrium, and policy analysis. Prerequisite: CDAE 254 or equivalent.

Credits: 3.

**CDAE 377 - Practicum in Extension Educ**

Credits: 1-12.

**CDAE 391 - Master's Thesis Research**

Credits: 1-18.

**CDAE 392 - Graduate Seminars**

Report and discuss research projects and findings of graduate students and faculty, and offer workshops on selected topics in community development and applied economics. May enroll more than once for up to three credits.

Prerequisite: Graduate standing.

Credits: 1.

**CDAE 395 - Special Topics**

Lectures or readings on contemporary issues in Community Development and Applied Economics at the graduate level. Prerequisite: Graduate standing.

Credits: 3.

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## Faculty for Community Development and Applied Economics Department

Jay Irwin Ashman

Senior Lecturer of Community Development and Applied Economics Emeritus

Appointed in [1982](#)

[Community Development and Applied Economics Department](#)

BA 1970 [Amherst College](#)

JD 1973 [George Washington University](#)

[Search Courses for Jay Ashman](#)

Marguerite G Ashman

Extension Professor Emerita

Appointed in [1974](#)

[Community Development and Applied Economics Department](#)

BA 1972 [Connecticut College](#)

MA 1982 [University of Oregon](#)

[Search Courses for Marguerite Ashman](#)

Daniel H. Baker

Assistant Professor of Community Development and Applied Economics

Appointed in [2001](#)

[Community Development and Applied Economics Department](#)

BA 1989 [Burlington College](#)

MS 1995 [University of Vermont](#)

PHD 2007 [University of Vermont](#)

[Search Courses for Daniel Baker](#)

Education

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• Graduate College

Kenneth Bauer

Assistant Professor of Community Development and Applied Economics

Appointed in [2007](#)

• Honors College

[Community Development and Applied Economics Department](#)

• School of Business Administration

BA 1992 [Brown University](#)

MS 1999 [University of California Berkeley](#)

PHD 2007 [University of Oxford](#)

• The Rubenstein

School of

Environment and

Natural Resources

[Search Courses for Kenneth Bauer](#)

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Thomas DeSisto

Lecturer of Community Development and Applied Economics

Appointed in [2001](#)

[Community Development and Applied Economics Department](#)

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Joshua C. Farley

Professor of Community Development and Applied Economics

Appointed in [2003](#)

[Community Development and Applied Economics Department](#)

BA 1985 [Grinnell College](#)

MIA 1990 [Columbia Business School](#)

PHD 1999 [Cornell University](#)

[Search Courses for Joshua Farley](#)

---

Charles William Ferreira

Associate Professor of Community Development and Applied Economics

Appointed in [1975](#)

[Community Development and Applied Economics Department](#)

BS 1970 [Fitchburg State College](#)

MED 1973 [Bowling Green State University](#)

PHD 1976 [Bowling Green State University](#)

[Search Courses for Charles Ferreira](#)

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Gary Flomenhoft

Lecturer of Community Development and Applied Economics

Research Associate of Community Development and Applied Economics

Appointed in [2003](#)

[Community Development and Applied Economics Department](#)

BSME 1977 [Tufts University](#)

MPP 2001 [University of Maryland College Park](#)

[Search Courses for Gary Flomenhoft](#)

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Marian E. Fritz

Lecturer of Community Development and Applied Economics

Appointed in [1993](#)

[Community Development and Applied Economics Department](#)

BA 1976 [University of North Carolina Chapel Hill](#)

MBA 1982 [University of Pittsburgh](#)

[Search Courses for Marian Fritz](#)

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Richard Gregory Johnson

Associate Professor of Community Development and Applied Economics

Associate Professor of Leadership and Developmental Sciences

Appointed in [1999](#)

[Community Development and Applied Economics Department](#)

[Leadership and Developmental Sciences Department](#)

BA 1987 [Johnson C Smith University](#)

MS 1990 [DePaul University](#)

DPA 1995 [Golden Gate University San Francisco](#)

MA 1999 [Georgetown University](#)

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Christopher J. Koliba

Professor of Community Development and Applied Economics

Appointed in [1999](#)

[Community Development and Applied Economics Department](#)

BS 1988 [Syracuse University](#)

MPA 1992 [Syracuse University](#)

PHD 1998 [Syracuse University](#)

[Search Courses for Christopher Koliba](#)

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Jane Marie Kolodinsky

Chairperson of Community Development and Applied Economics

Director of the Center for Rural Studies

Professor of Community Development and Applied Economics

Appointed in [1987](#)

[Community Development and Applied Economics Department](#)

[Dean's Office, College of Agriculture and Life Sciences](#)

BS 1981 [Kent State University](#)

MBA 1983 [Kent State University](#)

PHD 1987 [Cornell University](#)

[Search Courses for Jane Kolodinsky](#)

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Jonathan Grafley Leonard



Director of the CALS Self-Designed Major Program  
Senior Lecturer of Community Development and Applied Economics  
Appointed in [1984](#)  
[Community Development and Applied Economics Department](#)  
BA 1978 [Drew University](#)  
MS 1983 [University of Vermont](#)  
PHD 1993 [University of Vermont](#)  
[Search Courses for Jonathan Leonard](#)

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Chyi-Lyi Kathleen Liang  
Professor of Community Development and Applied Economics  
Appointed in [1998](#)  
[Community Development and Applied Economics Department](#)  
BS 1987 [National Taiwan University](#)  
MS 1991 [Purdue University](#)  
PHD 1996 [Purdue University](#)  
[Search Courses for Chyi-Lyi Liang](#)

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Edward Raymond McMahon  
Research Associate Professor of Community Development and Applied Economics  
Research Associate Professor of Political Science  
Appointed in [2003](#)  
[Community Development and Applied Economics Department](#)  
[Political Science Department](#)  
BSFS 1978 [Georgetown University](#)  
MA 1981 [Johns Hopkins University](#)  
MS 1986 [Boston University](#)  
[Search Courses for Edward McMahon](#)

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Glenn McRae  
Adjunct Lecturer of Community Development and Applied Economics  
Appointed in [2006](#)  
[Community Development and Applied Economics Department](#)  
BA 1977 [SUNY Potsdam](#)  
MA 1980 [Goddard College](#)  
PHD 2001 [Union Institute and University](#)  
[Search Courses for Glenn McRae](#)

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Robert L. Parsons  
Extension Professor of Community Development and Applied Economics  
Professor of Community Development and Applied Economics  
Appointed in [2000](#)  
[Community Development and Applied Economics Department](#)

BS 1985 [Pennsylvania State University](#)  
MS 1987 [Pennsylvania State University](#)  
PHD 1995 [Virginia Polytechnic Institute and State University](#)  
[Search Courses for Robert Parsons](#)

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Jane E. Petrillo  
Associate Professor of Community Development and Applied Economics  
Appointed in [1990](#)  
[Community Development and Applied Economics Department](#)  
BFA 1980 [Boston University](#)  
MFA 1986 [Virginia Commonwealth University](#)  
[Search Courses for Jane Petrillo](#)

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Richard A. Schramm  
Lecturer of Community Development and Applied Economics  
Appointed in [1998](#)  
[Community Development and Applied Economics Department](#)  
AB 1957 [Dartmouth College](#)  
BME 1959 [Rensselaer Polytechnic Institute](#)  
MS 1965 [Carnegie Mellon University](#)  
PHD 1966 [Carnegie Mellon University](#)  
[Search Courses for Richard Schramm](#)

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Elizabeth Scannell Trent  
Extension Associate Professor for Community Development and Applied Economics  
Emerita  
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[Community Development and Applied Economics Department](#)  
BA 1971 [Central College](#)  
MA 1976 [Montclair State University](#)  
PHD 1982 [University of Wisconsin Madison](#)  
[Search Courses for Elizabeth Trent](#)

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Qingbin Wang  
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Appointed in [1995](#)  
[Community Development and Applied Economics Department](#)  
BS 1983 [Northwest Agricultural University](#)  
PHD 1994 [Iowa State University](#)  
[Search Courses for Qingbin Wang](#)

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Richard A. Watts  
Director of the Center for Research on Vermont

Lecturer of Rubenstein School of Environment and Natural Resources  
Research Assistant Professor of Community Development and Applied Economics  
Research Assistant Professor of Transportation Research Center  
Appointed in 2001  
Community Development and Applied Economics Department  
The Rubenstein School of Environment and Natural Resources  
Transportation Research Center  
BA 1985 SUNY Cortland  
MA 1988 Syracuse University  
PHD 2000 University of Vermont  
[Search Courses for Richard Watts](#)

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## Environmental Program

### Contact Information

*University of Vermont  
Environmental Program  
Bittersweet  
153 South Prospect St.  
Burlington, VT 05401*

Phone: (802) 656-4055  
Fax: (802) 656-8015  
Email: [Elizabeth.Getchell@uvm.edu](mailto:Elizabeth.Getchell@uvm.edu)

[Web Site](#)

### Overview

Environmental Studies is a University-wide undergraduate environmental curricular option directed by the Environmental Program in cooperation with four colleges and professional schools. This option is one of UVM's most distinctive and popular academic programs ♦ unique nationally in its breadth and interdisciplinary nature.

Students entering UVM may apply for admission to Environmental Studies through several of the undergraduate divisions. Choice of the appropriate college or school will depend on the individual's interests, career and educational objectives.

The Environmental Program involves students and faculty from throughout the University, as well as community professionals, recognizing that study of the environment must draw upon all academic disciplines and professional fields. The activities of the Program include undergraduate education, research, and community service programs dedicated to the study and improvement of the cultural and natural environments essential to the quality of life on earth.

### In This Department

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## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

The Program serves a wide range of environmental interests, with its primary mission being undergraduate education, and its primary focus the individual student. Working closely with the faculty, each student plans an individualized program that combines a broad, comprehensive understanding of the environment with depth in a specific concentration of study. Major concentrations can be in the natural sciences, the humanities, the social sciences, or broadly interdisciplinary around a specific focus.

Many graduates continue their education in graduate or professional schools; others work in public and private sectors in highly diverse fields throughout Vermont, the nation, and in countries around the globe.

Students enrolled in Early Childhood, Elementary Education and Physical Education may complete the major concentration in Environmental Studies as a fulfillment of the liberal arts and sciences major requirement. Environmental Studies is not a Vermont State Department of Education approved endorsement area for Secondary Education.

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Program offices and a Student Services Center are located in The Bittersweet Building, where students are encouraged to visit with the staff and faculty regarding their academic plans, to gain assistance with research or action projects, and to seek information about academic programs, internships, international study opportunities, graduate studies, and future careers.

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### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#). [The Rubenstein School of Environment and Natural Resources](#).

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## Environmental Studies [CALs] (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Major in Environmental Studies is an interdisciplinary program available to qualified students upon approval of the Director of the [Environmental Program](#).

Environmental Studies students majoring through the College of Agriculture and Life Sciences must complete a minimum of 122 credit hours, including [ENVS 1](#), [ENVS 2](#), [ENVS 151](#), [ENVS 201](#), and [ENVS 202](#); and 30 credit hours of approved environmentally-related courses at the 100 level or above, including three hours at the 200 level, with at least one environmentally-related course in each of the following areas  natural sciences, humanities, social sciences, and international studies (may be fulfilled with study abroad experience).

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- Departments and Programs: [Environmental Program](#).

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## Education

- Graduate College
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## Environmental Studies [CALs] (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Environmental Studies Program. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Seventeen credit hours of Environmental Studies including [ENVS 001](#), [ENVS 002](#); nine credits at the 100-level or above, with at least three credits at the 200-level and may include one non-ENVS course with the approval of a student's advisor and Program Director.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#), [College of Arts and Sciences](#), [The Rubenstein School of Environment and Natural Resources](#).
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## Courses in Environmental Studies

### ENVS 001 - Intro to Environmental Studies

Survey of environmental studies examining ecological, socioeconomic, aesthetic, and technological influences determining quality of life on earth. Prerequisite: First-year/Sophomore standing or Instructor permission.

Credits: 4.

### ENVS 002 - Internat'l Environmental Stds

A multidisciplinary analysis of the interaction of global and local variables in understanding and solving pervasive environmental problems. Prerequisite: First-year or sophomore standing.

Credits: 4.

### ENVS 007 - Environmental Awareness

Selected current environmental issues from evolving political, religious, scientific, and social perspectives. For non-majors. Cannot receive credit for both ENVS 001 and ENVS 007

Credits: 3.

### ENVS 095 - Special Topics

Introductory courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural areas management.

Credits: 1-4.

### ENVS 096 - Special Topics

Credits: 1-3.

### ENVS 100 - Environmental Theory

Comparative analysis of emerging concepts of human/environment relationships;

Education the history, philosophy, and theoretical framework of environmental studies.  
Prerequisites: 1,2.

• Graduate College

Credits: 3.

• Honors College

**ENVS 151 - Intermed Environmental Studies**

Individual investigation of interdisciplinary areas of environmental studies with emphasis on academic and career choices and preparation for senior thesis/project. Prerequisites: Major in Environmental Studies; 1, 2; permission.  
Credits: 3.

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**ENVS 152 - Environment Information Skills**

age by teaching information concepts, skills, and broad ranging resources.  
Prerequisite: ENVS 151, or concurrently enrolled in ENVS 151.  
Credits: 1.

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**ENVS 156 - Permaculture**

productive environments that have the diversity, stability, and resilience of the natural biosphere to harmoniously integrate landscape and people. Prerequisite: Three hours basic biological or ecological science, or permission.  
Credits: 2.

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**ENVS 166 - Environmental Hst of N America**

Examination of human-environmental interaction on the North American continent over the past five hundred years. Pre/co-requisite: Three hours History. Cross-listed with:  
Credits: 3.

**ENVS 173 - Landscape Natural History**

This field-based course examines patterns and processes on local landscapes from an interdisciplinary perspective, and ecosystem geography. Prerequisites: ENVS 001; Sophomore standing.  
Credits: 3.

**ENVS 174 - Nat Areas Conservation&Steward**

Prerequisites: ENVS 001, NR 001, or Instructor permission.  
Credits: 3.

**ENVS 177 - Intro to Landscape Restoration**

Introduction to the history, philosophical foundations, and approaches to restoration of natural landscapes damaged by human activity and neglect. Case studies of selected local sites. Prerequisite: ENVS 001, NR 001, or Instructor permission.  
Credits: 3.

**ENVS 178 - Environmental Ethics**

Current approaches and problems in environmental ethics drawing on philosophy and case studies in animal rights, land ethics, deep ecology, wilderness protection, and human rights. Prerequisite: One environmental course; Junior standing.  
Credits: 0-3.

**ENVS 179 - Ecofeminism**

Investigation of the parallel dominations of women and nature, through analysis and reflection on ecofeminist theory, activism, and spirituality. Prerequisite: ENVS 001, ENVS 002 or WGST 073; Sophomore standing. Cross-listed with: WST 179. Credits: 3.

**ENVS 180 - Radical Environmentalism**

Survey of radical environmental philosophy and activism from a liberation ethics perspective. Includes deep ecology, ecofeminism, environmental justice, and ecological resistance movements around the world. Prerequisite: ENVS 001, ENVS 002; Sophomore standing. Credits: 3.

**ENVS 181 - Strategic Environmental Leadership**

Theory and analysis of strategic environmental leadership as it varies with culture, ethnicity, and gender. Prerequisites: 1, 2, junior standing, permission of instructor. Credits: 1.

**ENVS 182 - Religion and Ecology**

Exploration of the greening of major world religious traditions in both practice and philosophy. Includes institutional, activist, and lifestyle initiatives in ecological spirituality. Prerequisites: ENVS 001, NR 002, REL 020 or REL 021 preferred; Sophomore standing. or ENVS 002; or Credits: 3.

**ENVS 190 - Environmental Skills**

Workshops to develop applied skills useful for environmental work and/or research. Topics vary by semester. Prerequisite: ENVS 001, ENVS 002. Credits: 1-3.

**ENVS 191 - Environmental Practicum**

Individual readings and research, internship, or field-based learning experience under direction of a faculty member or environmental practitioner. Credit arranged. Prerequisite: Permission of course coordinator. Credits: .5-9.

**ENVS 195 - Special Topics**

Intermediate courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course; Sophomore standing. Credits: 1-6.

**ENVS 196 - Special Topics**

Intermediate courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course; Sophomore standing.

Credits: 1-6.

### **ENVS 197 - Student Designed Course**

Course Student-taught courses beyond the scope of existing formal courses in environmental studies. Developed according to Program guidelines, with sponsorship by interested faculty. Prerequisites: 1, 2, permission.

Credits: 1-3.

### **ENVS 201 - Research Methods**

(Not offered for graduate credit.) Planning, design, and methods for the required senior thesis or project. Includes literature review and proposal writing.

Prerequisites: 151, junior standing.

Credits: 3.

### **ENVS 202 - Senior Project and Thesis**

Senior level project or thesis under faculty direction. Prerequisites: 201, permission of Environmental Program. Credits arranged. (Not offered for graduate credit.)

Credits: 1-9.

### **ENVS 203 - Honors Thesis**

Undergraduates only.

Credits: 1-9.

### **ENVS 204 - Seminar Environmental Studies**

Review and discussion of current environmental research and literature.

Prerequisites: 1, 2, junior or senior standing. (Not offered for graduate credit.)

Credits: 1-3.

### **ENVS 284 - Teaching Assistantship**

in ENVS course. Variable credit. May be repeated. UG only. Students gain practical teaching experience through assisting with instruction, evaluation, and reflection. Tasks may include: leading discussion sessions, grading, and developing course materials. Prerequisites: Senior standing or permission of instructor, concurrent teaching assistant

Credits: 1-2.

### **ENVS 289 - Environmental Economics**

Application of economic theory and methods to environmental problems and policies. Includes cost-benefit analysis and economic incentives as tools for environmental problem solving. Prerequisites: 1, three hours intermediate economics. For students in Arts and Sciences: Economics 11-12, intermediate course in ENVS. UG only.

Credits: 3.

### **ENVS 290 - Environmental Policy**

Public policy dimensions of natural resource management and environmental protection; U.S. historical context; policy analyses of contemporary issues; administration of environmental resource institutions. Prerequisites: Six hours of

intermediate or advanced courses in ENVS or related areas. UG only.

Credits: 3.

**ENVS 291 - Advanced Environmental Pract**

Individual readings and research, internship, or field-based learning experience at the advanced level, under direction of faculty member or environmental practitioner. Prerequisite: ENVS 001, ENVS 002; Senior/Graduate standing.

Credits: 1-12.

**ENVS 293 - Environmental Law**

Principles of environmental law, including legal research methods, threshold issues, case law, trial procedure, and international comparisons in aspects of air, land, and water law. Prerequisite: Junior standing.

Credits: 3.

**ENVS 294 - Environmental Education**

Philosophy, concepts, and strategies of environmental education, emphasizing integration of environmental concerns into formal and nonformal educational programs for youth and adults. Prerequisite: Six hours of intermediate or advanced courses in Environmental Studies or related areas.

Credits: 3.

**ENVS 295 - Advanced Special Topics**

Advanced courses of current areas of interest which may vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course at 100 level; Junior standing.

Credits: 0-6.

**ENVS 296 - Advanced Special Topics**

junior standing. UG only.

Credits: 1-6.

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## Environmental Sciences Program

### Contact Information

*Joel Goldberg, Co-Coordinator*

*College of Arts and Sciences*

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*Alan McIntosh, Co-Coordinator*

*The Rubenstein School of Environment and Natural Resources*

*Phone: (802) 656-4057*

*FAX: (802) 656-8683*

*Email: [Alan.McIntosh@uvm.edu](mailto:Alan.McIntosh@uvm.edu)*

*Donald Ross, Co-Coordinator*

*College of Agriculture and Life Sciences*

*Phone: (802) 656-0138*

*Email: [Donald.Ross@uvm.edu](mailto:Donald.Ross@uvm.edu)*

[Web Site](#)

### Overview

Integrated across the College of Agriculture and Life Sciences (CAL S), the College of Arts and Sciences (CAS), and The Rubenstein School of Environment and Natural Resources (RSEN R), the B.S. degree program in Environmental Sciences (ENSC) draws from a breadth of scientific inquiry on the environment that reflects the diversity of this naturally multidisciplinary endeavor. All ENSC majors receive a strong foundation in the basic sciences coupled with an in-depth exposure to and experience in today's environmental sciences. This prepares our students to successfully compete in the environmental sciences job market as well as continue their education in the

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Education environmental sciences or a related field.

• Graduate College

• Honors College

• School of Business Administration

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All students take a common set of Foundation and Prerequisite courses in Biology, Chemistry, Mathematics, and Geology or Plant and Soil Science. A common set of Environmental Science Core courses is followed by specialization in one of nine focus areas (Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources.)

Each unit has a unique perspective on the discipline, and students are free to explore the environmental sciences within a context that best fits their interests and future plans:

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- In the College of Agriculture and Life Sciences, faculty research has a strong orientation toward applied environmental problems, not only in agricultural settings but also in the disciplines of plant biology, microbiology, soil science and international development. Students are engaged in experiential learning and hands-on research. Graduates have attained positions with environmental consulting firms, government and non-government environmental organizations, or continued with further education in a variety of fields.
- In the College of Arts and Sciences, the environmental sciences serve as a hub for a broad-based liberal arts education. Drawing from traditional science disciplines, such as Biology, Chemistry and Geology, this interdisciplinary degree program aims to develop in students the analytical skills and scientific background necessary for understanding the environment and environmental problems. By participating in active research programs involved in studying environmental problems, students are able to integrate and apply fundamental scientific inquiry with application to problems of environmental importance.
- In The Rubenstein School of Environment and Natural Resources, an in-depth knowledge of the environmental sciences is coupled with a familiarity with the social/policy aspects of environmental issues in order to analyze and solve problems caused by human impacts on the environment. Blending hands-on field and laboratory instruction with real-world environmental internship, research, and study abroad opportunities, students acquire the skill set needed to tackle complex environmental problems. With the school's emphasis on such cutting-edge areas as ecological design, restoration of damaged ecosystems and environmental risk assessment, RSENR graduates are equipped with the latest tools to protect our woods, waters and landscapes.

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## Environmental Sciences [CALs] (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Environmental Sciences majors through the College of Agriculture and Life Sciences must fulfill the following requirements for graduation:

- Core distribution requirements for major (also fill college core requirements): [CDAE 002](#); [CDAE 208](#); [PSS 011](#); [BCOR 102](#); [MMG 101](#).
- Environmental Science minimal basic science/quantitative courses (also fill college core requirements): [BCOR 011/BCOR 012](#); [CHEM 031/CHEM 032](#); [CHEM 042](#)<sup>1</sup>; [GEOL 055](#) or [PSS 161](#)<sup>2</sup>; [MATH 019/MATH 020](#); [STAT 141](#) or [STAT 211](#) or [NR 140](#).
- Environmental Sciences foundation courses: [ENSC 001](#), [ENSC 101](#), [ENSC 130](#), [ENSC 201](#), [ENSC 202](#).
- 14-17 credit hours in one of the following Focus Tracks: Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources. Up-to-date course requirements for each Focus Track are available from your advisor or the Dean's Office; students may elect to petition to develop a self-design track.

<sup>1</sup> Students should consider taking [CHEM 141/CHEM 142](#).



Education

<sup>2</sup> PSS 161 is required for many advanced PSS courses in several curricular concentrations; most students should take this course.

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

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## Courses in Environmental Sciences

### ENSC 001 - Intro Environmental Sciences

Emphasizes the impacts of human activity on the environment. Attention to resources at risk and pollutant fate and effects on ecosystems.

Credits: 3.

### ENSC 101 - Pollutant Mvmt/Air, Land & Water

Physical, chemical, and biological aspects of pollutant behavior from source to ultimate fate. Laboratory methodologies for measuring pollutants and predicting their transport, behavior, and fate. Prerequisites: 1; Biology 1, 2; Chemistry 31, 32; Math. 19, 20; co-requisite Chemistry 42.

Credits: 4.

### ENSC 130 - Global Environmental Assessment

Assessment of human impacts on the global environment. Hands-on application of satellite remote sensing and geographic information systems to address key environmental issues. Prerequisite: BIOL 001 or BOT 004, CHEM 023, or equivalent, MATH 019.

Credits: 3.

### ENSC 185 - Special Topics

See Schedule of Courses for specific titles. Variable credit.

Credits: 1-12.

### ENSC 195 - Internship

Professionally-oriented field experience under joint supervision of faculty and business or community representative. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing; Maximum of six hours. Three can be applied to elected concentration with Director permission.

Credits: 1-6.

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**ENSC 196 - Independent Research**

Special study and research activity under the directory of a faculty member. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing. Up to six hours. Three can be applied to elected concentration with Director permission.  
Credits: 1-6.

**ENSC 201 - Recovery&Restor Altered Ecosys**

Role of stress and disturbance and the natural process of recovery in aquatic and terrestrial ecosystems. Human efforts to modify, restore, and remediate altered ecosystems. Prerequisites: Natural Resources 103 or an intermediate-level ecology course; or instructor's permission. Environmental Sciences 101 strongly recommended.  
Credits: 3.

**ENSC 202 - Ecological Risk Assessment**

Approaches used to identify, measure, and manage ecological risk. Problem formulation, characterization, uncertainty analysis, and risk management. Case studies. Prerequisite: ENSC 201, NR 140 or STAT 141; Senior standing, or Instructor permission.  
Credits: 3.

**ENSC 222 - Pollution Ecology**

Impacts of pollutants on the structure and function of ecosystems. Examination of how air, land, and water influence ecological fate and effects of pollutants. Prerequisites: Biology 1; Chemistry 23, Natural Resources 103 or equivalent ecology course. (Not offered for graduate credit.)  
Credits: 3.

**ENSC 285 - Adv Special Topics ENSC**

See Schedule of Courses for specific titles. Prerequisites: Senior standing or instructor's permission. Variable credit. (Not offered for graduate credit.)  
Credits: 1-12.

**ENSC 299 - Environmental Sciences Honors**

Prerequisites: By application only; see program chair. Honors project dealing with environmental sciences.  
Credits: 3-6.

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Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Microbiology and Molecular Genetics Department

## Microbiology and Molecular Genetics Department

### Contact Information

*University of Vermont  
Microbiology and Molecular Genetics  
Department  
201 Stafford Hall  
Burlington, VT 05405*

Phone: (802) 656-2164

Fax: (802) 656-8749

Email: [mmg@uvm.edu](mailto:mmg@uvm.edu)

[Web Site](#)

### Overview

Undergraduates who undertake studies in the Department of Microbiology and Molecular Genetics receive instruction in the classroom and in state-of-the-art teaching and research laboratories. The Department offers either a Microbiology or a Molecular Genetics major or minor as well as courses in the areas of molecular genetics, general, clinical, and environmental microbiology, virology, and immunology which are available to students in other programs. Numerous research opportunities provide undergraduates with close interactions with faculty at the cutting edge of microbiology using molecular genetics technology.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Medicine](#)

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## Microbiology and Molecular Genetics Department: Academic Offerings

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- [Microbiology \(Minor\)](#)
- [Molecular Genetics \(B.S.\)](#)
- [Molecular Genetics \(Minor\)](#)

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## Microbiology (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Microbiology and Molecular Genetics core courses total 65 credits. The courses comprising the core are: biology, biochemistry, genetics, inorganic and organic chemistry, mathematics, general microbiology, molecular genetics, cell biology, physics, and statistics. In addition to the core requirements departmental majors take a minimum of 15 credit hours from an array of approved elective courses including undergraduate research.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Medicine](#)
- Departments and Programs: [Microbiology and Molecular Genetics Department](#).

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## Education

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Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Microbiology and Molecular Genetics Department > Academic Offerings > Microbiology (Minor)

## Microbiology (Undergraduate Minor)

### Specific Requirements

Core requirements are [MMG 101](#) and [MMG 104](#) , [BCOR 101](#), [BCOR 103](#); plus an additional six credit hours of MMG courses chosen from [MMG 195/MMG 196](#), [MMG 201](#), [MMG 203](#), [MMG 211](#), [MMG 220](#), [MMG 222](#), [MMG 223](#), [MMG 225](#), [MMG 240](#), [MMG 295/MMG 296](#), [MMG 320](#), depending on student needs.

*Agriculture and Life Sciences Majors:* Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Microbiology and Molecular Genetics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

*Arts and Sciences Majors:* A student may minor in Microbiology and Molecular Genetics upon permission of the departmental Undergraduate Affairs Committee and assignment of a minor advisor within the department who will direct the student's program plan and course selection.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#), [College of Medicine](#)
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## Education

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## Molecular Genetics (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Microbiology and Molecular Genetics core courses total 65 credits. The courses comprising the core are: biology, biochemistry, genetics, inorganic and organic chemistry, mathematics, general microbiology, molecular genetics, cell biology, physics, and statistics. In addition to the core requirements departmental majors take a minimum of 15 credit hours from an array of approved elective courses including undergraduate research.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Medicine](#)
- Departments and Programs: [Microbiology and Molecular Genetics Department](#).

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## Education

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## Molecular Genetics (Undergraduate Minor)

### Specific Requirements

Core requirements are [MMG 101](#), [MMG 104](#), [BCOR 101](#), [BCOR 103](#); plus an additional six credit hours of MMG courses chosen from [MMG 195/MMG 196](#), [MMG 201](#), [MMG 203](#), [MMG 211](#), [MMG 223](#), [MMG 225](#), [MMG 231](#), [MMG 240](#), [MMG 295/MMG 296](#), [MMG 312](#), [MMG 320](#), [MMG 352](#), depending on students needs.

*Agriculture and Life Sciences Majors:* Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Microbiology and Molecular Genetics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

*Arts and Sciences Majors:* A student may minor in Microbiology and Molecular Genetics upon permission of the departmental Undergraduate Affairs Committee and assignment of a minor advisor within the department who will direct the student's program plan and course selection.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#), [College of Medicine](#)
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## Courses in Micr & Molecular Genetics

### MMG 065 - Microbiology & Pathogenesis

Overview of microbiology, emphasizing the relationships between the structure, metabolism, and genetics of microorganisms and their roles in nature and in pathogenesis. Prerequisite: One semester chemistry. Not intended for students who have completed BIOL 001 and BIOL 002 or equivalent. Fall.

Credits: 4.

### MMG 095 - Special Topics

Credits: 1-3.

### MMG 096 - Special Topics

Credits: 1-3.

### MMG 101 - Biology of Microorganisms

An introduction to the biology of microorganisms, encompassing their diversity, metabolism, pathogenesis, and ecology. Prerequisites: One semester of chemistry and biology, or equivalent, or instructor's permission. Fall.

Credits: 4.

### MMG 104 - Intro Recombinant DNA Tech

restriction. Introduction to the basic principles and techniques used in recombinant DNA technology. Pre/co-requisites: BCOR 11/12 and a Microbiology or Molecular Genetics major or minor

Credits: 2.

### MMG 195 - Special Topics

Prerequisite: Instructor's permission. Credits negotiable.

Credits: 1-6.

### MMG 196 - Special Topics

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Prerequisite: Instructor's permission. Credits negotiable.

Credits: 0-6.

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### **MMG 197 - Undergrad Research**

Undergraduate honors students accommodated in individual research projects sponsored by department member. Arrangement with individual department member and department chairperson approval. Credits negotiable.

Credits: 1-6.

### **MMG 198 - Undergrad Research**

Undergraduate honors students accommodated in individual research projects sponsored by department member. Arrangement with individual department member and department chairperson approval. Credits negotiable.

Credits: 1-6.

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### **MMG 201 - Molecular Cloning Lab**

Intensive advanced laboratory course in the fundamentals of recombinant DNA technology through the isolation and characterization of a unique gene.

Prerequisite: 102 or equivalent. Fall.

Credits: 3.

### **MMG 203 - Mamm Cell Cult:Molecular Biol**

The basic principles and techniques of mammalian cell culture, as well as cell and mammalian molecular genetics. Prerequisite: Permission of coordinator. Alternate years, Spring.

Credits: 4.

### **MMG 205 - Biochemistry I**

Introduction to chemistry and structure of biological macromolecules; examination of mechanisms of chemical processes in biological systems, including enzyme catalysis, BIOC 205 and CHEM 205. UG only. Fall.

Credits: 3.

### **MMG 206 - Biochemistry II**

Continuation of Biochemistry I. Biochemistry of nucleic acids; nucleic acid based processes, such as replication and transcription; cellular information Crosslisted with BIOC 206 and CHEM 206. UG only. Spring.

Credits: 3.

### **MMG 207 - Biochemistry Lab**

with BIOC 207 and CHEM 207. UG only. Introduction to biochemical tools, including natural and recombinant enzyme isolation; assays of DNA-modifying enzymes; computer-based structure/function exercises. Corequisites: 205 or 206. Crosslisted spectrometry, chromatography, and electrophoresis;

Credits: 2.

### **MMG 211 - Prokaryotic Molecular Genetics**

The organization, replication, and expression of genes in prokaryotes, focusing on the genetics of Escherichia coli and its viruses. Prerequisite: Introductory

microbiology, biochemistry, genetics, and/or cell biology courses. Fall.

Credits: 3.

**MMG 220 - Environmental Microbiology**

The activities of microorganisms, primarily bacteria, in air, soil, and water.

Prerequisite: A previous course in microbiology. Alternate years.

Credits: 3.

**MMG 222 - Clinical Microbiology**

Comprehensive study of human pathogenic microorganisms and their disease states in humans, which includes pathogenic bacteriology, medical mycology, and virology. Laboratory sessions provide practical experience in handling and identifying these pathogens. Prerequisite: 65 or 101 or equivalent. Spring.

Credits: 4.

**MMG 223 - Immunology**

Analysis of the immune response with respect to structure and function of immunoglobulins and the T-cell receptor, tolerance, innate and adaptive immunity, the Major Histocompatibility Complex, hypersensitivity states, transplantation, cancer, and AIDS. Prerequisite: Instructor's permission. Alternate years. Fall.

Credits: 3.

**MMG 225 - Eukaryotic Virology**

An in-depth analysis of eukaryotic virus-mammalian cell interactions emphasizing mechanisms by which viruses modulate gene expression in infected cells.

Prerequisite: 101 or 102 or equivalent. Alternate years. Fall.

Credits: 3.

**MMG 231 - Bioinformatics**

Fall.

Credits: 3.

**MMG 240 - Macromol Struct Prot&Nucl Acid**

Introduction to structural biology and macromolecular structure with an emphasis on protein-protein and protein-nucleic acids interactions. Prerequisites: Biology 1, 2; Organic Chemistry; Junior standing recommended; concentration in Physics. (Cross-listed with BIOC 240) Alternate years, not approved for graduate credit. Spring.

Credits: 3.

**MMG 295 - Special Topics**

Supervised investigations in microbiology or molecular genetics. Prerequisite: Instructor permission. Credit as arranged.

Credits: 1-6.

**MMG 296 - Special Topics**

Supervised investigations in microbiology or molecular genetics. Prerequisite: Instructor permission. Credit as arranged.

Credits: 0-6.

**MMG 302 - Medical Microbiology**

Fundamentals of pathogenic microbiology emphasizing mechanisms of disease production and mechanisms of resistance to infection. The ecologic rather than taxonomic approach is stressed. Primarily for Medical students.

Credits: 8.

**MMG 310 - Current Topics in MMG**

Seminar to focus on specific issues at the forefront of current research in molecular genetics. Meetings will involve student presentation and discussion of research articles. Prerequisite: Permission of Coordinator.

Credits: 2.

**MMG 312 - Eukaryotic Molecular Genetics**

The use of lower eukaryotes, such as the yeasts *Saccharomyces cerevisiae* and *Schizosaccharomyces pombe*, as model genetic systems to answer questions of basic biological importance. Prerequisites: Instructor permission; MMG 233 and CLBI 301, or equivalent.

Credits: 3.

**MMG 320 - Cellular Microbiology**

Utilizes primary literature to explore the cellular and molecular basis of microbial pathogenesis caused by viruses, pathogenic bacteria and protozoan parasites.

Alternate years. Spring.

Credits: 4.

**MMG 332 - Critical Reading**

Students will participate in group discussions to critically evaluate and interpret the experimental data from one assigned paper from the scientific literature per week.

Prerequisite: Permission of Coordinator. Fall.

Credits: 1.

**MMG 352 - Protein:Nucleic Acid Interact**

Structure of DNA and RNA, and the structure and assembly of nucleoprotein complexes will be described using examples from prokaryotes, yeast, viruses, and mammalian cells in culture. Prerequisite: MMG 211 or equivalent; AGBI 201 or BIOC 301; BIOC 302 or equivalent. Cross-listed with: BIOC 352. Alternate years. Spring.

Credits: 3.

**MMG 391 - Master's Thesis Research**

Credits: 1-18.

**MMG 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## Faculty for Microbiology and Molecular Genetics Department

Richard Joseph Albertini

Professor of Microbiology and Molecular Genetics Emeritus

Professor of Pediatrics Emeritus

Appointed in [2004](#)

[Microbiology and Molecular Genetics Department](#)

[Pediatrics Department](#)

BS 1960 [University of Wisconsin Madison](#)

MD 1963 [University of Wisconsin Madison](#)

PHD 1972 [University of Wisconsin Madison](#)

[Search Courses for Richard Albertini](#)

Erik Alan Bateman

Research Associate Professor of Microbiology and Molecular Genetics

Appointed in [1988](#)

[Microbiology and Molecular Genetics Department](#)

BSC 1977 [Sussex University](#)

PHD 1983 [Reading University](#)

[Search Courses for Erik Bateman](#)

Jeffrey P. Bond

Professor of Microbiology and Molecular Genetics

Appointed in [1995](#)

[Computer Science Department](#)

[Microbiology and Molecular Genetics Department](#)

BS 1983 [University of Rochester](#)

MS 1986 [University of Rochester](#)

Education [PHD 1989 University of Rochester](#)  
[Search Courses for Jeffrey Bond](#)

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Natural Resources

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Gerard George Bouffard  
Adjunct Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [2002](#)  
[Microbiology and Molecular Genetics Department](#)

BS 1984 [University of Vermont](#)  
PHD 1994 [George Washington University](#)  
[Search Courses for Gerard Bouffard](#)

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John MacKenzie Burke  
Professor of Microbiology and Molecular Genetics  
Appointed in [1988](#)

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Administration

[Microbiology and Molecular Genetics Department](#)  
AB 1975 [Middlebury College](#)  
MS 1979 [University of Vermont](#)

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PHD 1983 [Massachusetts Institute of Technology](#)  
[Search Courses for John Burke](#)

---

Sylvie Doublet  
Director of Undergraduate Biochemistry  
Professor of Microbiology and Molecular Genetics  
Appointed in [1998](#)  
[Biochemistry Department](#)  
[Microbiology and Molecular Genetics Department](#)  
DEA 1988 [University of Paris XI](#)  
PHD 1993 [University of North Carolina Chapel Hill](#)  
[Search Courses for Sylvie Doublet](#)

---

Julie Dragon  
Research Associate of Microbiology and Molecular Genetics  
Appointed in [1997](#)  
[Microbiology and Molecular Genetics Department](#)  
BA 1991 [University of Vermont](#)  
PHD 2006 [University of Vermont](#)  
[Search Courses for Julie Dragon](#)

---

Christopher Steward Francklyn  
Professor of Biochemistry  
Professor of Microbiology and Molecular Genetics  
Appointed in [1992](#)  
[Biochemistry Department](#)



[Microbiology and Molecular Genetics Department](#)  
[Neuroscience Graduate Program](#)  
BA 1979 [University of California Santa Barbara](#)  
MA 1983 [University of California Santa Barbara](#)  
PHD 1988 [University of California Santa Barbara](#)  
[Search Courses for Christopher Francklyn](#)

---

Eunice H. Froeliger  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Research Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [1988](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1971 [University of Connecticut](#)  
MED 1977 [University of Vermont](#)  
PHD 1988 [University of Vermont](#)  
[Search Courses for Eunice Froeliger](#)

---

Gregory Michael Gilmartin  
Associate Professor of Microbiology and Molecular Genetics  
Appointed in [1990](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1978 [Michigan State University](#)  
PHD 1983 [University of Virginia](#)  
[Search Courses for Gregory Gilmartin](#)

---

Kenneth J. Hampel  
Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [1994](#)  
[Microbiology and Molecular Genetics Department](#)  
BSC 1989 [University of Saskatchewan](#)  
PHD 1994 [University of Saskatchewan](#)  
[Search Courses for Kenneth Hampel](#)

---

Burt Benjamin Hamrell  
Professor of Medicine Emeritus  
Professor of Molecular Physiology and Biophysics Emeritus  
Appointed in [2003](#)  
[Microbiology and Molecular Genetics Department](#)  
MD 1962 [University of Illinois Urbana-Champaign](#)  
PHD 1976 [University of Vermont](#)  
[Search Courses for Burt Hamrell](#)

---

Nicholas H. Heintz

Director of the Cellular, Molecular and Biomedical Sciences Graduate Program

Professor of Microbiology and Molecular Genetics

Professor of Pathology

Appointed in 1983

Microbiology and Molecular Genetics Department

Pathology - General, College of Medicine

BA 1971 Holy Cross College

MS 1977 University of Vermont

PHD 1979 University of Vermont

Search Courses for Nicholas Heintz

---

Douglas Ian Johnson

Director of the CALS Honors Program

Professor of Microbiology and Molecular Genetics

Appointed in 1988

Microbiology and Molecular Genetics Department

BS 1978 Miami University Oxford

PHD 1983 Purdue University

Search Courses for Douglas Johnson

---

Beth Diane Kirkpatrick

Professor of Medicine - Infectious Disease

Professor of Microbiology and Molecular Genetics

Appointed in 1999

Infectious Disease, College of Medicine

Microbiology and Molecular Genetics Department

BS 1988 Bates College

MD 1992 Albany Medical College

Search Courses for Beth Kirkpatrick

---

Rama Kocherlakota

Research Associate of Microbiology and Molecular Genetics

Appointed in 2001

Microbiology and Molecular Genetics Department

BA 1985 Princeton University

PHD 1989 Harvard University

Search Courses for Rama Kocherlakota

---

Mariana Laura Matrajt

Research Assistant Professor of Microbiology and Molecular Genetics

Appointed in 2004

Microbiology and Molecular Genetics Department

MS 1993 [University of Buenos Aries](#)  
PHD 1997 [University of Buenos Aries](#)  
[Search Courses for Mariana Matrajt](#)

---

Keith Peter Mintz  
Associate Professor of Microbiology and Molecular Genetics  
Appointed in [1991](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1977 [SUNY Binghamton](#)  
MS 1979 [West Virginia University](#)  
PHD 1990 [University of Vermont](#)  
[Search Courses for Keith Mintz](#)

---

Scott Walker Morriscal  
Professor of Biochemistry  
Professor of Microbiology and Molecular Genetics  
Appointed in [1992](#)  
[Biochemistry Department](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1982 [Wichita State University](#)  
PHD 1987 [University of Wisconsin Madison](#)  
[Search Courses for Scott Morriscal](#)

---

David Scott Pederson  
Professor of Microbiology and Molecular Genetics  
Appointed in [1988](#)  
[Microbiology and Molecular Genetics Department](#)  
AB 1976 [University of Chicago](#)  
MS 1980 [University of Rochester](#)  
PHD 1983 [University of Rochester](#)  
[Search Courses for David Pederson](#)

---

Stephanie F. Phelps  
Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [2004](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1998 [McGill University](#)  
MS 2004 [University of Vermont](#)  
[Search Courses for Stephanie Phelps](#)

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Carlene Allen Raper  
Research Associate Professor of Microbiology and Molecular Genetics Emerita  
Appointed in [1983](#)

Microbiology and Molecular Genetics Department

BS 1946 University of Chicago

MS 1948 University of Chicago

PHD 1977 Harvard University

Search Courses for Carlene Raper

---

Warren R. Stinebring

Professor of Microbiology Emeritus

Microbiology and Molecular Genetics Department

Search Courses for Warren Stinebring

---

Brenda V. Tessmann

Assistant Professor of Microbiology and Molecular Genetics

Appointed in 1981

Microbiology and Molecular Genetics Department

BS 1973 University of Vermont

MS 1980 University of Vermont

Search Courses for Brenda Tessmann

---

Markus Josef Thali

Professor of Microbiology and Molecular Genetics

Appointed in 1999

Microbiology and Molecular Genetics Department

DNAT 1985 University of Zurich

PHD 1990 University of Zurich

Search Courses for Markus Thali

---

Mary Laretta Tierney

Associate Professor of Microbiology and Molecular Genetics

Associate Professor of Plant Biology

Appointed in 1993

Graduate College

Microbiology and Molecular Genetics Department

Plant Biology Department

BS 1976 Marywood University

PHD 1983 Michigan State University

Search Courses for Mary Tierney

---

Susan Scholes Wallace

Chairperson of Microbiology and Molecular Genetics

Professor of Microbiology and Molecular Genetics

Appointed in 1988

[Microbiology and Molecular Genetics Department](#)  
BS 1959 [Marymount College](#)  
MS 1961 [University of California Berkeley](#)  
PHD 1965 [Weill Cornell Medical College](#)  
[Search Courses for Susan Wallace](#)

---

Gary E. Ward  
Professor of Microbiology and Molecular Genetics  
Appointed in [1996](#)  
[Microbiology and Molecular Genetics Department](#)  
BSC 1979 [University New Brunswick](#)  
PHD 1985 [University of California San Diego](#)  
[Search Courses for Gary Ward](#)

---

Umadevi V. Wesley  
Research Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [2001](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1981 [University of Agricultural Sciences](#)  
MS 1983 [University of Agricultural Sciences](#)  
PHD 1994 [SUNY Albany](#)  
[Search Courses for Umadevi Wesley](#)

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- Continuing

Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Nutrition and Food Sciences Department

## Nutrition and Food Sciences Department

### Contact Information

*University of Vermont  
Nutrition and Food Sciences Department  
305 Terrill Hall  
570 Main St  
Burlington, VT 05405-0148*

Phone: (802) 656-3374

Fax: (802) 656-0407

Email: [Ann.Martin@uvm.edu](mailto:Ann.Martin@uvm.edu)

[Web Site](#)

### Overview

The Department of Nutrition and Food Sciences (NFS) prepares students to enter the rapidly expanding field of dietetics, food science, nutrition, health, and fitness. Nutrition and Food Science, unique in fields of study, are rooted in the physiological, chemical, and biochemical sciences but are comprehensive in scope since they integrate knowledge learned in the social and psychological sciences. The faculty in the department believe that excellence in teaching, research and undergraduate student advisement are critical components of their responsibility to undergraduate education. Through formal course work, field experience, and independent research, students prepare themselves in the biochemical, psychological, and socioeconomic aspects diet, nutrition and foods. Thus NFS majors are able to meet the current and future needs in nutrition and food science and assume innovative, leadership roles in society and industry.

### In This Department

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Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

The course credits earned in NFS provide background in preventive and therapeutic nutrition as well as nutrient requirements for human growth, development, health, and fitness throughout the life cycle. Other courses focus on the physical, chemical, and nutritional properties of food, food safety, and consumer aspects of food related to socioeconomic status, life style, cultural beliefs, and health. Although a series of courses providing knowledge in these areas is required of all majors, each student has a generous amount of free elective credits to pursue personal interests.

It is possible for students to meet the requirements for more than one program option (for example, Dietetics majors are also double majors in Nutrition and Food Sciences) or combine a major in this department with another area of study. In addition, department majors may elect to meet the undergraduate requirements needed for admission to medical schools (including naturopathic, chiropractic, or osteopathic) or graduate school in nutrition, food science, sports nutrition, or family and consumer sciences.

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## Dietetics (Bachelor of Science)

### Overview

Dietetics is a profession concerned with the science and art of human nutritional care, an essential component of human health science. The Didactic Program in Dietetics is currently granted developmental accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, (312) 899-0040 ext. 5400. This program prepares students for careers as Registered Dietitians by providing the undergraduate requirements needed to apply to dietetic internships.

To become a Registered Dietitian, students must complete our Didactic Program in Dietetics; complete a CADE accredited approved supervised practice/internship program and pass the National Registration Examination for Dietitians. This prepares graduates to counsel people about the preventive and therapeutic role of nutrition in the maintenance of health and fitness.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Dietetics Required Courses (24-26 credits): [NFS 223](#), [NFS 244](#), [NFS 250](#), [NFS 260](#), [NFS 262](#), [NFS 263](#), [BSAD 120](#); [BMT 003](#); Electives (23-47 credits).

### Affiliations

Education

Colleges and Schools:[College of Agriculture and Life Sciences.](#)

- Departments and Programs:[Nutrition and Food Sciences Department.](#)

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• School of Business  
Administration

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Environment and  
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## Nutrition and Food Sciences (Bachelor of Science)

### Overview

This customized major is designed to provide a strong background in preventive nutrition, food science, and basic science. Students have an opportunity to integrate course work in medical, biochemical, biological, physiological, psychological, and sociological sciences or business. This option can prepare students for careers in the commercial food processing industry or in professions where knowledge of food and beverage, nutrient content of foods, eating behavior, and the role of food in society is critical. The demand for qualified professionals with education and training in the food science arena greatly exceeds the number of graduates available thus making this option highly desirable for the career motivated student.

Students may choose the Nutrition and Food Science Doctorate in Physical Therapy (DPT) Program called the 3+3 program. In the 3+3, all NFS requirements must be completed in three years and the student must apply for matriculation into the DPT.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Nutritional and Food Sciences (12 credits): In consultation with the student's academic advisor, select four additional courses, at least two of which must be at the 200-level. Electives (38-60 credits).

### Affiliations

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## Nutrition and Food Sciences (Undergraduate Minor)

### Specific Requirements

A total of fifteen credit hours in Nutrition and Food Sciences, 9 credit hours consisting of [NFS 043](#), [NFS 053](#), [NFS 143](#), and six credits of NFS courses from the following: [NFS 153](#), [NFS 165](#), [NFS 195](#), or any 200-level course approved by the student's minor advisor that will define a particular focus. Independent study, field experience and undergraduate research cannot be counted in this total.

*Agriculture and Life Sciences Majors:* Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Nutrition and Food Science Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

*Arts and Sciences Majors:* Arts and Sciences students must select at least eight credits of NFS course work at or above the 100-level.

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## Nutrition and Food Sciences Core Requirements

### General Education Studies for all Majors (50 credits)

- A. Communication Skills (6 hours)
  - [ENGS 001](#) (or equivalent)
  - [AGRI 183](#) (or equivalent)
- B. Fine Arts and Humanities (6 credits)
  - Two unspecified courses
- C. Social Science Core (6 credits)
  - PSYC 001
  - [SOC 001](#) or [SOC 109](#), or [SWSS 047](#)
- D. Basic Science Core (20 credits)
  - [CHEM 023](#) (or [CHEM 031](#)); [CHEM 042](#) (or [CHEM 141](#))
  - [ANPS 019/ANPS 020](#)
  - [AGBI 201/AGBI 202](#)
- E. Analytical Science Core (9 credits)
  - [STAT 111](#) (or equivalent)
  - [MATH 009](#) or higher
  - [AGRI 85](#) (or equivalent)
- F. CALS first year Orientation (1 credits)
  - EDSS 011 - Race and Culture (or equivalent)
  - [AGRI 001, 002](#) - Foundations
- G. Physical Activity
  - Two unspecified courses

### Department Core Requirements for all Majors Nutrition and Food Sciences (22 credits)

[NFS 043](#), [NFS 044](#), [NFS 053](#), [NFS 054](#), [NFS 143](#), [NFS 153](#), [NFS 154](#), [NFS 203](#), [NFS](#)



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## Courses in Nutrition and Food Sciences

### NFS 043 - Fundamentals of Nutrition

Comprehensive study of specific nutrients in terms of their availability, function, and utilization in mammalian species. Prerequisites: High school chemistry and biology. Fall /Spring.

Credits: 3.

### NFS 044 - Survey of the Field

Nutrition and Food Sciences Introduction to the professional field and career opportunities in dietetics, nutrition and food science. Required of all First-Year and transfer students. Fall.

Credits: 1.

### NFS 053 - Basic Concepts of Foods

preparation. Spring.

Credits: 3.

### NFS 054 - Basic Concepts of Foods Lab

Developing comprehension of scientific principles of food preparation through modification of standard recipes, manipulation of ingredients and techniques, and evaluation using sensory and objective methods. Prerequisite: NFS 053 or concurrent registration in NFS 053 or permission. Spring; Department majors only.

Credits: 1.

### NFS 063 - Obesity,Weight Control&Fitness

Introduction to the causes, consequences, and reputed cures of obesity which includes: evaluation of body composition and modification of eating and exercise behaviors in weight control. Fall / Spring.

Credits: 3.

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**NFS 143 - Nutrition in the Life Cycle**  
Nutritional needs of people throughout the life cycle. Physiological and environmental factors which affect nutritional status. Designed for Nutrition majors. Prerequisite: NFS 043. Fall.  
Credits: 3.

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**NFS 153 - Principles of Food Technology**  
Food processing technologies and underlining principles of changes in microbiological quality and safety, chemical composition and nutritional value, and interaction of functional additives and ingredients. Prerequisite: NFS 043, NFS 053; organic chemistry. Spring.  
Credits: 3.

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**NFS 154 - Principles Food Technology Lab**  
Experiential learning of principles of major modern food processing and preservation technologies, essential skills of food quality and safety assurance, and new product development. Prerequisite: NFS 054, NFS 153, or concurrent enrollment in NFS 153, organic chemistry; Department majors only.  
Credits: 1.

**NFS 163 - Sports Nutrition**  
Timing and composition of meals for training and pre- and post-competition. Prerequisite: Instructor permission. Fall/Spring.  
Credits: 3.

**NFS 165 - Mgmt of Eating Disorders**  
Examination of the causes, diagnosis, and treatment of body image disorder, anorexia nervosa, bulimia nervosa, binge eating, and obesity. Information is provided through readings, lecture, discussion, and speakers. Spring.  
Credits: 3.

**NFS 195 - Special Topics**  
Lectures, laboratories, readings, or projects relating to contemporary areas of study. Credits negotiable. Enrollment may be more than once, maximum of 12 hours in NFS 195 and NFS 295 combined. Prerequisite: Department permission  
Credits: 1-12.

**NFS 196 - Field Experience**  
Professionally-oriented field experience under joint supervision by faculty and business or community representative. Credits negotiable, maximum of 15 hours in NFS 196 and NFS 296 combined. Prerequisite: Department permission.  
Credits: 1-15.

**NFS 197 - Undergraduate Research**  
Individual laboratory or community research in food or nutritional sciences under the guidance of a faculty member. Arrangement with faculty member and permission of Department Chair.  
Credits: 1-3.

**NFS 198 - Undergraduate Research**

Individual laboratory or community research in food or nutritional sciences under the guidance of a faculty member. Arrangement with faculty member and Department Chair permission.

Credits: 1-3.

**NFS 201 - Fermented Dairy Foods**

Fundamental processes involved in the manufacture of domestic and imported cheese varieties and other cultured dairy foods. Acquired knowledge of manufacturing procedures applied at pilot plant level. Prerequisite: A course in organic chemistry; AGBI 201, or permission. Alternate years.

Credits: 4.

**NFS 203 - Food Microbiology**

Desirable and undesirable activities of bacteria in foods. Mechanisms of food-borne infection and intoxication. Laboratory methods to enumerate and identify microorganisms associated with food. Prerequisite: A course in Biochemistry. Fall.

Credits: 4.

**NFS 205 - Functional Foods:Prncpl & Tech**

create a functional food. Pre/co-requisites: NFS 153, Examines the constituents that make food products functional and provides laboratory techniques needed to NFS 154, or Instructor permission.

Credits: 3.

**NFS 208 - Sensory Evaluation of Foods**

Nature of sensory responses to aroma, taste, and texture of foods; relation of sensory data to instrumental measurements; statistical analysis and interpretation of sensory data. Prerequisite: a course in Statistics. Alternate years.

Credits: 4.

**NFS 223 - Nutrition Educ & Counseling**

Use of appropriate education theory, techniques, and media in nutrition education and counseling theories and negotiation, interviewing and counseling skills in individual and group counseling. Pre/co-requisites: NFS 043, NFS 053, NFS 054, NFS 143.

Credits: 3.

**NFS 243 - Advanced Nutrition**

Study of nutrients and their specific functions in metabolic process integrating cellular physiology, biochemistry, and nutrition. Prerequisites: 43, AGBI 201 or equivalent, ANPS 19 or equivalent; Junior standing. Spring.

Credits: 3.

**NFS 244 - Nutr in Hlth & Disease Prevntn**

Pre/co-requisites: CHEM 042, ANPS 020, NFS 053, NFS 054, Examination of dietary planning, nutrition assessment, genetics, drug-nutrient interactions, CAM therapies and nutrition related to health and prevention of disease. NFS 143.

Credits: 3.

**NFS 250 - Foodservice Systems**

Emphasis on the foodservice system model for understanding quality control; food procurement, production, and marketing; management and evaluation of foodservice facilities, human and financial resources. Prerequisites: BSAD 065 and BSAD 120.

Credits: 4.

**NFS 253 - Food Safety & Regulation**

Comprehensive study of the relationships between food processing and preservation, food toxicology, and the scope, applicability, and limitations of U.S. food laws. Prerequisite: AGBI 201 or equivalent. Spring.

Credits: 3.

**NFS 260 - Diet and Disease**

treatment. Examination of the physiologic, biochemical, and psychosocial basis of several disease states and the application of medical nutrition therapy in Prerequisite: NFS 053, NFS 143, NFS 243, NFS 244.

Credits: 3.

**NFS 262 - Community Nutrition**

Study of U.S. public health nutrition policies, programs and practices. Emphasis on community nutrition program planning including needs assessment, intervention development and evaluation. Prerequisite:NFS 260; Senior standing. Spring.

Credits: 3.

**NFS 263 - Nutritional Biochemistry**

Comprehensive study of metabolism of carbohydrates, lipids, and protein emphasizing diet induced, hormone mediated alterations in metabolism (e.g. starvation and obesity). Prerequisite: NFS 243 or Instructor permission. Spring.

Credits: 3.

**NFS 274 - Community Practicum**

Professional field experience in a community nutrition organization. Credit negotiable but not to exceed three per semester. Enrollment may be more than once, maximum of 6 credits. Prerequisite: Instructor's permission. (Not offered for graduate credit.)

Credits: 1-6.

**NFS 295 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Credits negotiable. Enrollment may be more than once, maximum of 12 hours in 195 and 295 combined. Prerequisite: Departmental permission.

Credits: 1-15.

**NFS 296 - Field Experience**

Professionally-oriented field experience under joint supervision of faculty and

business or community representative. Credit negotiable. Maximum of 15 hours in 196 and 296 combined. Prerequisite: Departmental permission.

Credits: 1-15.

**NFS 350 - Nutrition&Food Science Seminar**

Credits: 1.

**NFS 360 - Rsch Meth Nutr & Food Sciences**

Pre/Co-requisites: Permission of the Instructor. Advanced research methods, including grant preparation, IRB requirements, data analysis and presentation, and selected topics in advanced nutritional and food sciences.

Credits: 3.

**NFS 391 - Master's Thesis Research**

Credits: 1-18.

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## Faculty for Nutrition and Food Sciences Department

Monserrat Almena-Aliste

Research Associate of Nutrition and Food Sciences

Appointed in 2004

Nutrition and Food Sciences Department

DVM 1992 University of Santiago

MS 1996 University of Santiago

PHD 1998 University of Santiago

Search Courses for Monserrat Almena-Aliste

Cynthia L Belliveau

Dean of Continuing Education

Research Assistant Professor of Nutrition and Food Sciences

Appointed in 2000

Continuing Education

Nutrition and Food Sciences Department

BS 1976 University of Vermont

MPA 1980 University of Maine

EDD 2007 University of Vermont

Search Courses for Cynthia Belliveau

Linda Berlin

Director of Extension - Sustainable Agriculture Center

Extension Assistant Professor of Nutrition and Food Sciences

Lecturer of Nutrition and Food Sciences

Appointed in 1992

Extension - Center for Sustainable Agriculture

Education [Nutrition and Food Sciences Department](#)  
BA 1983 [The Evergreen State College](#)  
• Graduate College MS 1990 [Cornell University](#)  
• Honors College PHD 2006 [Tufts University](#)  
[Search Courses for Linda Berlin](#)

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

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Heather Jean Danis  
Lecturer of Nutrition and Food Sciences  
Appointed in [1998](#)  
[Nutrition and Food Sciences Department](#)  
BS 1992 [University of Vermont](#)  
MPH 1996 [University of North Carolina](#)  
[Search Courses for Heather Danis](#)

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Catherine Wright Donnelly  
Professor of Nutrition and Food Sciences  
Appointed in [1983](#)  
[Nutrition and Food Sciences Department](#)  
BS 1978 [University of Vermont](#)  
MS 1980 [North Carolina Central University](#)  
PHD 1983 [North Carolina State University Raleigh](#)  
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Sylvia Maria Geiger  
Lecturer I of Nutrition and Food Sciences  
Appointed in [1993](#)  
[Nutrition and Food Sciences Department](#)  
BS 1980 [Cornell University](#)  
MS 1983 [Oklahoma State University](#)  
[Search Courses for Sylvia Geiger](#)

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Ming Ruo Guo  
Professor of Nutrition and Food Sciences  
Appointed in [1993](#)  
[Nutrition and Food Sciences Department](#)  
BSC 1982 [Northeast Agricultural College](#)  
MSC 1985 [Northeast Agricultural College](#)  
PHD 1990 [University College Cork](#)  
[Search Courses for Ming Guo](#)

---

Jean Ruth Harvey-Berino  
Associate Professor of Medicine  
Associate Professor of Medicine - General



Chairperson of Nutrition and Food Sciences  
Professor of Nutrition and Food Sciences  
Appointed in [1991](#)  
[General Medicine, College of Medicine](#)  
[Nutrition and Food Sciences Department](#)  
BS 1981 [Pennsylvania State University](#)  
MS 1984 [Pennsylvania State University](#)  
PHD 1991 [University of Pittsburgh](#)  
[Search Courses for Jean Harvey-Berino](#)

---

Malai Dale Holland  
Lecturer of Nutrition and Food Sciences  
Research Associate of Education  
Appointed in [1993](#)  
[Education Department](#)  
[Nutrition and Food Sciences Department](#)  
BS 1973 [James Madison University](#)  
MPH 1984 [University of Minnesota Twin Cities](#)  
[Search Courses for Malai Holland](#)

---

Rachel K Johnson  
Professor of Nutrition and Food Sciences  
Professor of Pediatrics  
Appointed in [1991](#)  
[Nutrition and Food Sciences Department](#)  
[Pediatrics Department](#)  
BS 1974 [Pennsylvania State University](#)  
MPH 1980 [University of Hawaii Manoa](#)  
PHD 1991 [Pennsylvania State University](#)  
[Search Courses for Rachel Johnson](#)

---

Paul Stephen Kindstedt  
Associate Director of the Vermont Institute for Artisan Cheese  
Professor of Nutrition and Food Sciences  
Appointed in [1986](#)  
[Dean's Office, College of Agriculture and Life Sciences](#)  
[Nutrition and Food Sciences Department](#)  
BS 1979 [University of Vermont](#)  
MS 1981 [University of Vermont](#)  
PHD 1986 [Cornell University](#)  
[Search Courses for Paul Kindstedt](#)

---

Deborah K. Paradis

Lecturer II of Nutrition and Food Sciences  
Appointed in [2002](#)  
[Nutrition and Food Sciences Department](#)  
BS 1977 [Adelphi University](#)  
MS 1979 [University of Vermont](#)  
[Search Courses for Deborah Paradis](#)

---

Stephen Joseph Pintauro  
Associate Professor of Nutrition and Food Sciences  
Appointed in [1981](#)  
[Nutrition and Food Sciences Department](#)  
BS 1974 [University of Rhode Island](#)  
MS 1978 [University of Rhode Island](#)  
PHD 1981 [University of Rhode Island](#)  
[Search Courses for Stephen Pintauro](#)

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Candace L. Polzella  
Lecturer of Nutrition and Food Sciences  
Appointed in [1991](#)  
[Nutrition and Food Sciences Department](#)  
BS 1972 [University of Vermont](#)  
MSS 1986 [University of Colorado Boulder](#)  
[Search Courses for Candace Polzella](#)

---

Todd J. Pritchard  
Senior Lecturer of Nutrition and Food Sciences  
Appointed in [1985](#)  
[Nutrition and Food Sciences Department](#)  
BS 1985 [University of Vermont](#)  
MA 1991 [University of Vermont](#)  
PHD 1998 [University of Vermont](#)  
[Search Courses for Todd Pritchard](#)

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Jane Kaye Ross  
Professor of Nutrition and Food Sciences  
Appointed in [1979](#)  
[Nutrition and Food Sciences Department](#)  
BS 1968 [Michigan State University](#)  
MS 1972 [Purdue University](#)  
PHD 1979 [Oregon State University](#)  
[Search Courses for Jane Ross](#)

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Amy B. Trubek

Associate Professor of Nutrition and Food Sciences  
Director of the Food Systems Graduate Program  
Appointed in 2005  
Nutrition and Food Sciences Department  
BA 1985 Haverford College  
PHD 1995 University of Pennsylvania  
Search Courses for Amy Trubek

---

Robert Stanley Tyzbir  
Professor of Nutrition and Food Sciences  
Appointed in 1973  
Nutrition and Food Sciences Department  
BS 1968 Michigan State University  
MS 1972 Purdue University  
PHD 1979 Oregon State University  
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Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Plant and Soil Science Department

## Plant and Soil Science Department

### Contact Information

*University of Vermont  
Plant and Soil Science Department  
Hills Agricultural Building  
105 Carrigan Drive  
Burlington, VT 05405-0082*

Phone: (802) 656-2630

Fax: (802) 656-4656

Email: [pss@uvm.edu](mailto:pss@uvm.edu)

[Web Site](#)

### Overview

The Plant and Soil Science program allows students to expand their knowledge of science and apply it to ecological plant production and management, landscape design, and to environmental issues related to plants and soils. The faculty represent the disciplines of agronomy, horticulture, entomology, plant pathology, and soil science. Our program provides a unique, interdisciplinary opportunity for studying plant/soil ecosystems that are managed for food, feed, fiber production, landscape purposes, or recycling/waste utilization.

The program integrates classroom and field experiences and incorporates relevant environmental, social, and economic issues into the curriculum. Faculty help students develop individualized courses of study to match their interests and career goals. The department has two majors, Ecological Agriculture and Sustainable Landscape Horticulture.

### In This Department

- [Academic Offerings](#)
- [Plant and Soil Science Required Core Courses](#)
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## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

## Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).

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## Plant and Soil Science Department: Academic Offerings

- [Ecological Agriculture \(B.S.\)](#)
- [Plant and Soil Science \(Minor\)](#)
- [Sustainable Agriculture \(Minor\)](#)
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## Education

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Colleges and Schools > College of Agriculture and Life Sciences > Departments and Programs > Plant and Soil Science Department > Academic Offerings > Ecological Agriculture (B.S.)

## Ecological Agriculture (Bachelor of Science)

### Overview

The Ecological Agriculture major teaches students how to use ecological concepts to solve agriculture problems. The Curriculum offers a strong background in science. It includes economic, policy and ethic course work, and an internship that allows students to gain hands-on experience. Ecology is the uniting thread that integrates the coursework and ties the curriculum together. Students graduating from this major will be trained to use ecological concepts to solve agriculture problems for careers as farm managers and owners, scouts, and agriculture related employment.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Plant and Soil Science Required Core Courses](#)

### Specific Requirements

Required Core Courses: [PSS 011](#), [PSS 021](#), [PSS 106](#), [PSS 117](#), [PSS 138](#), [PSS 158](#), [PSS 161](#), [PSS 162](#), [PSS 210](#), [PSS 215](#), [PSS 281](#); [CDAE 061](#), [CDAE 166](#) or [BSAD 120](#); [CDAE 208](#); [BOT 004](#), [BOT 104](#); [NR 103](#) or [FOR 120](#); [CHEM 023](#), [CHEM 026](#); [MATH 010](#); [STAT 111](#), [STAT 141](#), [STAT 211](#) or [NR 140](#); and 12 credits of PSS courses at the 100-level or higher (excluding [PSS 195/196](#) ♦Special Topics♦ and [PSS 197/198](#) ♦Independent Study♦ or WWW courses unless prior approval is obtained by the students♦ advisor.) All students must get a C- or better in all courses required by the ecological agriculture major.

### Affiliations



## Education

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  - Departments and Programs:[Plant and Soil Science Department](#).
- Honors College [\[Location\]](#)
- School of Business Administration
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## Plant and Soil Science (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Plant and Soil Science Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Sixteen credits including [PSS 010](#) or [PSS 011](#), [PSS 161](#), plus an additional 9 credits in Plant and Soil Science courses at the 100-level or above.

### Affiliations

- Colleges and Schools:[College of Agriculture and Life Sciences](#).
- Departments and Programs:[Plant and Soil Science Department](#).

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## Education

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## Sustainable Agriculture (Undergraduate Minor)

### Specific Requirements

Fifteen hours including nine in required courses [ASCI 230](#) or [CDAE 208](#), [CDAE 061](#) and [PSS 152](#); three or four credits from the following restricted electives: [ASCI 110](#), [ASCI 113](#), [ASCI 115](#), [ASCI 118](#), [ASCI 213](#), [ASCI 214](#), [ASCI 220](#), [ASCI 231](#), [ASCI 233](#), [ASCI 234](#), [ASCI 264](#) or [CDAE 171](#), [CDAE 205](#), [CDAE 218](#), [CDAE 272](#), [CDAE 273](#), or [PSS 106](#), [PSS 161](#), [PSS 122](#), [PSS 123](#), [PSS 124](#), [PSS 125](#), [PSS 126](#), [PSS 127](#), [PSS 138](#), [PSS 141](#), [PSS 145](#), [PSS 154](#), [PSS 210](#), [PSS 215](#), [PSS 217](#), [PSS 221](#), [PSS 232](#); and a three to six credit hour internship: [AGRI 195](#) ♦ [Special Topics](#), [ASCI 197](#) or [ASCI 297](#), [CDAE 196](#), or [PSS 197](#) or [PSS 297](#).

Agriculture and Life Sciences Majors: Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Plant and Soil Science, Community Development and Applied Economics, or Animal Science departments. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Arts and Sciences Majors: Fifteen hours to include: [CDAE 061](#), [CDAE 208](#), [PSS 152](#), one elective at 100- or 200-level in ASCI/CDAE/PSS (see list of approved electives in Department or Dean's Offices) and three to six hours of internship at 100 or 200 level in AGRI/ASCI/CDAE/PSS. Note: Students should take their four academic courses before they design their internship experience. Thus the internship will serve as a culminating event in this program of study. The College of Arts and Sciences requires their students to receive a letter grade for internships taken in minor programs of study.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Plant and Soil Science Department](#).

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## Sustainable Landscape Horticulture (Bachelor of Science)

### Overview

Sustainable Landscape Horticulture (SLH) provides a professional education in the use and care of trees, shrubs, flowers, lawn grasses, and other plants in the human environment. The program integrates professional training in landscape design and the plant sciences with courses in business and the liberal arts. The emphasis is on the preparation of students for the changing future and a variety of careers in the expanding field of Sustainable Landscape Horticulture. Students are encouraged to participate in internships related to their studies.

This interdisciplinary program is coordinated by the Department of Plant and Soil Science; student majors in the program are therefore enrolled in the Plant and Soil Science Department.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Plant and Soil Science Required Core Courses](#)

### Specific Requirements

Required Core Courses: [PSS 011](#), [PSS 106](#) or [PSS 107](#), [PSS 117](#), [PSS 123](#), [PSS 125](#), [PSS 131](#), [PSS 132](#), [PSS 138](#), [PSS 145](#), [PSS 158](#), [PSS 161](#), [PSS 162](#), [PSS 281](#); [FOR 021](#); [CDAE 061](#), [CDAE 166](#), or [BSAD 120](#); [BOT 004](#); [BOT 104](#) or [NR 103](#); [NR 25](#) or [143](#) or [CDAE 101](#); [CHEM 023](#) and [CHEM 026](#); [MATH 010](#); [STAT 111](#), [STAT 141](#), [STAT 211](#) or [NR 140](#). All students must get a C- or better in all courses required by the Sustainable Landscape Horticulture major.

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## Plant and Soil Science Required Core Courses

The Plant and Soil Science faculty are actively involved not only in teaching but in research that is targeted at solving agricultural and environmental problems. Students are encouraged to become involved in on-going research projects or to develop independent learning experiences with the guidance of a faculty member. In addition, opportunities exist for off-campus internships that provide valuable work experience and insights into professional careers.

### Plant and Soil Science Required Core Courses

Required Core Courses (18-20 credits): [PSS 011](#), [PSS 106](#), [PSS 117](#), [PSS 138](#), [PSS 161](#), [PSS 162](#), [PSS 281](#); [BOT 004](#); [BOT 104](#); [CHEM 023](#) or [CHEM 031](#); [CHEM 026](#), [CHEM 042](#), or [CHEM 141](#); [MATH 010](#) or equivalent; [STAT 111](#), [STAT 141](#), [STAT 211](#) or [NR 140](#); [CDAE 061](#) and [CDAE 166](#); [NR 103](#) and [BCOR 102](#), or [FOR 120](#); both majors require additional course work at the 100-level or above excluding [PSS 195](#), [PSS 196](#), [PSS 197](#), [PSS 198](#), so as not to include independent studies and special topics unless approval is obtained from the student's advisor. All students must get a C- or better in all courses required by their major.

More information can be found at the [Plant and Soil Science web site](#).

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## Courses in Plant & Soil Science

### PSS 010 - Home & Garden Horticulture

Planning, selecting, and maintaining shrubs, trees, flowers, lawns, fruits, and vegetables around the home. Designed primarily for non-agricultural students.

Credits: 3.

### PSS 011 - Principles of Plant Science

Principles and practices involved in the culture, management, and utilization of economically important horticulture and agronomic crops.

Credits: 3.

### PSS 021 - Introduction to Ecological Agr

Ecological concepts as applied to agriculture including farm visits. Prerequisites: Must be enrolled in the Ecological Agriculture major or permission.

Credits: 3.

### PSS 095 - Special Topics

Courses or seminars on topics beyond the scope of existing department offerings.

Credits: 1-18.

### PSS 096 - Special Topics

Courses or seminars on topics beyond the scope of existing department offerings.

Credits: 1-18.

### PSS 106 - Entomology & Pest Mgmt

Survey of the major insect orders, and methods for controlling injurious species.

Prerequisite: 11.

Credits: 4.

### PSS 107 - Forest Entomology

Ecology and population dynamics of insects affecting forests and forest products.

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Insect control by silvicultural, biotic, and chemical means. Prerequisite: Junior standing in Forestry or Urban Forestry and Landscape Horticulture.

Credits: 3.

**PSS 117 - Plant Pathology**

Alternate years.

Credits: 4.

**PSS 121 - Indoor Plants**

Indoor flowers, culture, related topics such as design. Prerequisite: PSS 10 or 11 or Botany 4 or permission. Alternate years.

Credits: 1.

**PSS 123 - Garden Flowers**

Outdoor flowers, culture, related topics. Prerequisite: PSS 10 or 11 or Botany 4 or permission. Alternate years.

Credits: 2.

**PSS 124 - Vegetable Crop Production**

Principles and practices of commercial vegetable fruit and root crop production, including seed production, propagation, tillage, cultural practices, and nutrition value. (Alternate years) Pre/co-requisites: PSS 11

Credits: 3.

**PSS 125 - Woody Landscape Plants**

Identification, climatic requirements, cultural management, and use of ornamental plant materials in landscape planting. Prerequisite: 11 or Botany 4 or permission.

Credits: 4.

**PSS 127 - Greenhouse Operations & Mgmt**

Principles and practices of commercial greenhouse management including construction, heating, cooling, container media, watering, fertilization, light and temperature, growth regulators, integrated pest management and disease control. Prerequisite: PSS 11. Alternate years.

Credits: 3.

**PSS 131 - Landscape Design 1**

A studio course emphasizing theory of landscape design and its application to actual landscape design problems. Graphic communication techniques included. Prerequisite: PSS 11 or permission.

Credits: 3.

**PSS 132 - Landscape Design 2**

Advanced techniques in landscape design. Grading, construction details, graphic techniques, site analysis as well as various design problems. Prerequisite: PSS 125 or PSS 131, or RM 138, or permission.

Credits: 3.

**PSS 138 - Commercial Plant Propagation**

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Principles and practices involved in propagating herbaceous and woody plants by seeds, division, layering, cuttings, budding, grafting, and aseptic culture.

Prerequisite: PSS 11 or permission.

Credits: 4.

**PSS 143 - Forage Crop Management**

Identification, establishment, and management of crops grown for hay, pasture, and silage. Prerequisite: PSS 11 or 3 credits in Biology or Botany or permission.

Cross-listing: ASCI 143. Alternate years.

Credits: 3.

**PSS 145 - Turfgrass Management**

Establishment, maintenance, and utilization of turf for aesthetic, athletic and utility functions. Prerequisite: PSS 11 or 3 credits in Botany or permission. (Alternate years)

Credits: 3.

**PSS 152 - Agroecology**

An ecosystem approach to agriculture. Ecological thinking in agriculture, plant/soil ecosystems, ecological design principles and specific sustainable systems (permaculture, biodynamics, agroforestry, organic). Prerequisite: Three credits in a basic biological or ecological science or permission. Alternate years.

Credits: 3.

**PSS 154 - Composting Ecology & Mgmt**

Examines ecological, physical and chemical principles, the practical management of the composting process, and benefits of using compost in plant and soil ecosystems. Prerequisite: 3 credits in basic biological or ecological science or permission. Alternate years.

Credits: 3.

**PSS 156 - Permaculture**

Design of agriculturally productive environments that have the diversity, stability, and resilience of the natural biosphere to harmoniously integrate landscape and people. Prerequisite: Three credits in a basic biological or ecological science, or permission. Cross-listed with: ENVS 156.

Credits: 3.

**PSS 158 - Internship:Eco Ag/Landscape Hrt**

permission. Academically oriented hands-on experience in agriculture and horticulture under the joint Must be a senior in the Ecological Agriculture Major or the Sustainable Landscape Horticulture Major or supervision of instructor and host. Pre/co-requisites:

Credits: 3-6.

**PSS 161 - Fundamentals of Soil Science**

Biological, chemical, and physical properties of the dynamic soil system as related to plant growth and environmental problems. Prerequisite: Inorganic chemistry or

permission.

Credits: 4.

**PSS 162 - Soil Fertility & Management**

An agroecological analysis of soil fertility management including nutrient supply and uptake, rhizosphere-microbial interactions, fertility evaluations, and management techniques. Prerequisite: PSS 161 or permission.

Credits: 3.

**PSS 195 - Undergrad Special Topics**

Courses or seminars on topics beyond the scope of existing department offerings.

Prerequisite: Instructor permission.

Credits: 1-4.

**PSS 196 - Undergrad Special Topics**

Courses or seminars on topics beyond the scope of existing department offerings.

Prerequisite: Instructor permission.

Credits: 1-4.

**PSS 197 - Undergrad Independent Study**

Department Chair.

Credits: 1-6.

**PSS 198 - Undergrad Independent Study**

internship, or assisting in teaching. Prerequisite: Permission. More than a total of six credits per semester requires the permission of the Department Chair.

Credits: 1-6.

**PSS 212 - Ecological Farm Mgmt**

management and advanced agroecology concepts. Applying basic ecological concepts and principles for practical farm management. Will cover integrated strategies for building healthy soils, integrated pest Pre/co-requisites: Senior in the Ecological Agriculture Major or Graduate Student. Pss 21, 106, 117, 161, 215 or permission.

Credits: 3.

**PSS 215 - Weed/Crop Ecology**

Weed identification, reproduction, ecological relationships with crops, and integrated management. Prerequisites: PSS 161 or permission. Alternate years.

Credits: 3.

**PSS 217 - Ecol & Mgmt of Grazing Systems**

Physiological and ecological relationships of pasture plants with grazing livestock; economic and ecological impact of grazing systems. (Alternate years)

Prerequisites: PSS 11 and 143 or permission.

Credits: 3.

**PSS 223 - Sustainable Fruit Production**

or Instructor permission.

Credits: 3.

**PSS 261 - Soil Morph Class & Land Use**

Field techniques that describe soil properties, formation, and classification. The principles and processes of soil genesis, land use classification systems, and land use challenges. Prerequisite: PSS 161 or permission. Alternate years.

Credits: 3.

**PSS 264 - Chemistry of Soil & Water**

An environmentally oriented study of the colloidal chemistry of soil and its interfaces with roots, water, and air. Prerequisites: PSS 161, two semesters chemistry or permission. Alternate years.

Credits: 4.

**PSS 266 - Soil Water Movement**

Mathematical modeling and physical principles of the soil-water-plant interaction and its relationship to environmental and agricultural issues. Prerequisites: PSS 161, one semester of physics or permission. Alternate years.

Credits: 3.

**PSS 269 - Soil/Water Pollution/Bioremed**

Examines key issues in pollution of soil and water. Topics include type of pollutants, their reactions in soil and water, pollution prevention and bioremediation. Alternate years.

Credits: 3.

**PSS 281 - Sr Seminar:Eco Ag/Lndscp Hrt**

Assessment of students' skills and activities designed to improve them. Including: writing, presentations, problem solving, critical thinking, management, leadership, conflict resolution and career and professional development. Pre/co-requisites: Must be a senior in the Ecological Agriculture Major or the Sustainable Landscape Horticulture Major or permission.

Credits: 3.

**PSS 295 - Advanced Special Topics**

Lectures, laboratories, readings, field projects, surveys, or research designed to provide specialized experience in horticulture, agronomy, soils, entomology, and integrated pest management. Pre-requisite: Permission.

Credits: 1-3.

**PSS 296 - Advanced Special Topics**

Lectures, laboratories, readings, field projects, surveys, or research designed to provide specialized experience in horticulture, agronomy, soils, entomology, and integrated pest management. Pre-requisite: Permission.

Credits: 1-3.

**PSS 297 - Advanced Independent Study**

Individual projects under direction of a faculty member. Project may involve original research, readings, internship, or assisting in teaching. Prerequisite:

Instructor permission; More than a total of six credits per semester requires Chair permission.

Credits: 1-6.

**PSS 298 - Advanced Independent Study**

Individual projects under direction of a faculty member. Project may involve original research, readings, internship, or assisting in teaching. Prerequisite: Instructor permission; more than a total of six credits per semester requires Chair permission.

Credits: 1-6.

**PSS 301 - Plant Science Colloquium**

Graduate student and faculty discussion of current research topics in plant science.

Credits: 1.

**PSS 302 - Soil Science Colloquium**

Graduate student and faculty discussion of current research

Credits: 1.

**PSS 381 - Graduate Special Topics**

Advanced readings and discussion of horticulture, crops, or soils research literature.

Credits: 1-3.

**PSS 391 - Master's Thesis Research**

Credits: 1-18.

**PSS 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## Faculty for Plant and Soil Science Department

John Aleong

Professor of Plant and Soil Science

Appointed in 1976

Plant and Soil Science Department

BA 1968 University of the West Indies

MSC 1971 University of Toronto

PHD 1975 Iowa State University

Search Courses for John Aleong

Sidney Carl Bosworth

Extension Associate Professor of Plant and Soil Science

Appointed in 1989

Plant and Soil Science Department

BS 1976 Auburn University

MS 1978 Auburn University

PHD 1984 University of Kentucky

Search Courses for Sidney Bosworth

Scott D. Costa

Lecturer of Plant and Soil Science

Appointed in 1999

Plant and Soil Science Department

BS 1983 Rutgers University

MS 1988 Rutgers University

PHD 1999 North Carolina State University

Search Courses for Scott Costa



## Education

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- Graduate College Heather Marie Darby  
Adjunct Assistant Professor of Plant and Soil Science
- Honors College Extension Associate Professor  
Appointed in 2003  
Extension - Programming and Faculty Support  
Plant and Soil Science Department
- School of Business Administration BS 1997 University of New Hampshire  
MS 2000 University of Wisconsin Madison  
PHD 2003 Oregon State University  
Search Courses for Heather Darby

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Aleksandra Drizo  
Lecturer I of Plant and Soil Science  
Appointed in 2004  
Plant and Soil Science Department  
BSC 1988 University of Belgrade  
MSC 1993 University Edinburgh  
PHD 1998 University of Edinburgh  
Search Courses for Aleksandra Drizo

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Vladimir V. Gouli  
Research Assistant Professor of Plant and Soil Science  
Appointed in 1995  
Plant and Soil Science Department  
BS 1959 Northern Ossetian State Academy of Medicine  
MS 1961 Northern Ossetian State Academy of Medicine  
PHD 1967 Institute of Biocontrol  
DSC 1973 Institute of Cytology  
Search Courses for Vladimir Gouli

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Vernon Phillip Grubinger  
Adjunct Lecturer of Plant and Soil Science  
Director of Extension - SARE  
Extension Professor  
Appointed in 1990  
Extension - SARE  
Plant and Soil Science Department  
BS 1979 University of Massachusetts Amherst  
MS 1982 Cornell University  
PHD 1989 Cornell University  
Search Courses for Vernon Grubinger

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John Patrick Hayden  
Lecturer I of Plant and Soil Science  
Appointed in [2004](#)  
[Plant and Soil Science Department](#)  
[BS 1980 SUNY Health Science Center at Syracuse](#)  
[MS 1985 Michigan State University](#)  
[Search Courses for John Hayden](#)

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Ann L. Hazelrigg  
Extension Instructor of Plant and Soil Science  
Appointed in [1983](#)  
[Plant and Soil Science Department](#)  
[BS 1977 Colorado State University](#)  
[MS 1981 Cornell University](#)  
[Search Courses for Ann Hazelrigg](#)

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Sarah Taylor Lovell  
Adjunct Lecturer of Plant and Soil Science  
Appointed in [2007](#)  
[Plant and Soil Science Department](#)  
[BS 1992 University of Illinois Urbana-Champaign](#)  
[MS 1995 University of Illinois Urbana-Champaign](#)  
[PHD 2000 University of Illinois Urbana-Champaign](#)  
[MLA 2005 University of Illinois Urbana-Champaign](#)  
[Search Courses for Sarah Lovell](#)

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Victor E. Mendez  
Associate Professor of Plant and Soil Science  
Appointed in [2006](#)  
[Plant and Soil Science Department](#)  
[BS 1994 California Polytechnic State University San Luis Obispo](#)  
[MS 1996 Tropical Agriculture Research & Education Center \(CATIE\)](#)  
[PHD 2004 University of California Santa Cruz](#)  
[Search Courses for Victor Mendez](#)

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Deborah Neher Weicht  
Chairperson of Plant and Soil Science  
Professor of Plant and Soil Science  
Appointed in [2004](#)  
[Plant and Soil Science Department](#)  
[BS 1984 McPherson College](#)  
[MS 1986 University of Illinois Urbana-Champaign](#)  
[PHD 1990 University of California Davis](#)

[Search Courses for Deborah Neher Weicht](#)

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Bruce Lawrence Parker  
Professor of Plant and Soil Science  
Appointed in [1965](#)  
[Plant and Soil Science Department](#)  
BA 1955 [University of Maine](#)  
MS 1962 [Cornell University](#)  
PHD 1965 [Cornell University](#)  
[Search Courses for Bruce Parker](#)

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Leonard Payne Perry  
Extension Professor of Plant and Soil Science  
Appointed in [1981](#)  
[Plant and Soil Science Department](#)  
BS 1977 [Auburn University](#)  
MS 1979 [Cornell University](#)  
PHD 1981 [Cornell University](#)  
[Search Courses for Leonard Perry](#)

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Donald Savage Ross  
Co-Director of the Environmental Science Program  
Director of the Agriculture Testing Laboratory  
Research Professor of Plant and Soil Science  
Appointed in [1980](#)  
[Dean's Office, College of Agriculture and Life Sciences](#)  
[Plant and Soil Science Department](#)  
BS 1977 [University of Vermont](#)  
MS 1981 [University of Vermont](#)  
PHD 1990 [University of Vermont](#)  
[Search Courses for Donald Ross](#)

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Margaret Skinner  
Research Professor of Plant and Soil Science  
Appointed in [1988](#)  
[Plant and Soil Science Department](#)  
BA 1972 [Ohio Wesleyan University](#)  
MS 1987 [University of Vermont](#)  
PHD 1993 [University of Vermont](#)  
[Search Courses for Margaret Skinner](#)

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Mark C. Starrett  
Associate Professor of Plant and Soil Science

Appointed in [1997](#)  
[Plant and Soil Science Department](#)  
BS 1987 [University of Delaware](#)  
MS 1992 [North Carolina State University Raleigh](#)  
PHD 1996 [North Carolina State University Raleigh](#)  
[Search Courses for Mark Starrett](#)

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Jon Paul Turmel  
Lecturer I of Plant and Soil Science  
Appointed in [1995](#)  
[Plant and Soil Science Department](#)  
BS 1974 [University of New Hampshire](#)  
MS 1976 [University of New Hampshire](#)  
[Search Courses for Jon Turmel](#)

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Winston A. Way  
Extension Professor of Plant and Soil Science Emeritus  
[Plant and Soil Science Department](#)  
[Search Courses for Winston Way](#)

[\[Location\]](#)



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Colleges and Schools > College of Agriculture and Life Sciences > Requirements > College of Agriculture and Life Sciences Core Curriculum

## College of Agriculture and Life Sciences Core Curriculum

### A. Knowledge

Students develop a fundamental base of knowledge that will serve as a foundation for lifelong learning.

1. Science: Students use the scientific method to understand the natural world and the human condition.
  - a. Physical and Life Sciences: Competency may be met by satisfactory completion of two courses in such subjects as: anatomy, animal science, biology, botany, chemistry, ecology, entomology, food science, forestry, geology, genetics, microbiology, nutrition, physics, physiology, plant science, and soil science.
  - b. Social Science: Competency may be met by satisfactory completion of two courses in such subjects as: anthropology, community development, economics, geography, history, political science, public policy, psychology, and sociology.
2. Humanities & Fine Arts: Students develop an understanding and appreciation for the creative process and human thought. Competency may be met by satisfactory completion of two courses in such subjects as art: classics, history, literature, music, philosophy, religion, language, theater.

### B. Skills

Students develop abilities and use tools to effectively communication, analyze, problem solve, think critically and work with others.

1. Communication Skills: Students express themselves in a way that is easily understood at a level that is appropriate for the audience.
  - a. Oral: Students show confidence and efficacy in speaking before a group. Competency may be met by satisfactory completion of [AGRI 001](#) or [AGRI 183](#) (or equivalent) where primary focus is public speaking, and an additional course or series of courses in which students present a minimum of three graded speeches, in total, to a

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group.

- b. Written: Students effectively communicate in writing. Competency may be met by satisfactory completion of any English writing course and an additional course or series of courses that uses the writing process (redrafting) for a minimum of three graded papers in total.
2. Information Technology: Students demonstrate mastery of technology for communication, data gathering and manipulation, and information analysis. Competency may be met by satisfactory completion of [AGRI 002](#) or [AGRI 85](#) (or equivalent) and an additional course or series of courses that uses computers for a minimum of two applications in total.
3. Quantitative Skills: Students demonstrate the ability to understand and use numbers.
  - a. Mathematics: Students demonstrate the use of numbers for problem solving. Competency may be met by satisfactory completion of Math 9 or higher.
  - b. Statistics: Students demonstrate the use of numbers for data analysis and inference. Competency may be met by satisfactory completion of Statistics 111 or higher or [NR 140](#).
  - c. Quantitative Skills Application: Students apply mathematics or statistics skills in a course relevant to their major. Competency may be met by satisfactory completion of one course that utilizes principles from math or statistics.
4. Critical Thinking Skills: Students demonstrate ability to comprehend, judge, and present written/oral arguments and to solve problems. Students learn how to distinguish between fact, conjecture, and intuition. Competency may be met by satisfactory completion of any course or series of courses in which students solve problems and analyze, judge, and construct arguments.
5. Interpersonal Skills: Students demonstrate the ability to work well with other people by understanding and using skills of leadership, conflict resolution, and group process. Competency may be met by satisfactory completion of any course or series of courses that includes leadership, working in diverse groups, conflict resolution, and group process.

### C. Values

Students are exposed to values that are expressed through relationships with community, the environment, and themselves that are consistent with the mission of the College of Agriculture and Life Sciences and the University of Vermont campus compact known as "Our Common Ground."

1. Citizenship & Social Responsibility: Students develop an understanding, appreciation and empathy for the diversity of human experience and perspectives. Students are exposed to solving problems for a community and contributing to the common good. Competency may be met by satisfactory completion of [EDSS 11](#) (or equivalent) and one other course or series of courses that exposes students to these values.
2. Environmental Stewardship: Students develop a sensitivity for the interconnected relationship between human beings and the natural world

and the responsibility for stewardship of the environment. Competency may be met by satisfactory completion of two courses or a series of courses that expose students to these values.

3. Personal Growth: Students develop an understanding and appreciation of a healthy lifestyle and a love for learning that will lead to continuous growth and development throughout their life-span. Students continue to improve self by developing and affirming the values of respect, integrity, innovation, openness, justice, and responsibility. Competency may be met by satisfactory completion of [AGRI 001](#) and [AGRI 002](#), two credits of physical education, and one other course or series of courses that exposes students to these values.

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Colleges and Schools > College of Agriculture and Life Sciences > Requirements > College of Agriculture and Life Sciences Degree Requirements

## College of Agriculture and Life Sciences Degree Requirements

All programs in the College of Agriculture and Life Sciences lead to the Bachelor of Science degree and require:

- A. The successful completion of a minimum of 120 credits of course work plus two credits in physical education.
- B. A minimum cumulative grade-point average of 2.00.
- C. Completion of the CALS Core Curriculum.
- D. Completion of AGRI 001/AGRI 002 - Foundations by all first semester first-year students in the College of Agriculture and Life Sciences.
- E. One course addressing race relations and ethnic diversity for all (incoming first-year, incoming transfer and internal transfer) CALS students. Students may enroll in EDSS 011, the one-credit Race and Culture course, or may choose from a CALS faculty-approved list of alternative 3-credit courses: ALAN 051, ALAN 055, SOC 019, SOC 032, SOC 118, SOC 119, SOC 219, ANTH 187, EC 153, GEOG 060, HST 068, POLS 029, POLS 129, CMSI 160, ENGS 057, ENGS 170, CDAE 002, REL 021. Students choosing the 3-credit course option satisfy 3 of the 6-credit social science distribution requirement.
- F. All courses as specified in individual program majors.

The applicability of courses to specific areas is based on content and not departmental label. Courses taught in the College of Agriculture and Life Sciences can be used to fulfill knowledge core curriculum requirements; however, they must be taken outside the department in which the student's program of study is located. Applicability of courses to fulfill requirements rests with the student's advisor and, if necessary, concurrence of the Dean of the College.

Students in the College of Agriculture and Life Sciences may not take more than 25 percent of their course credits in the School of Business Administration.



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Colleges and Schools > College of Agriculture and Life Sciences > Requirements > College of Agriculture and Life Sciences Preprofessional Programs

## College of Agriculture and Life Sciences Preprofessional Programs

Students striving for admission to professional colleges, such as dentistry, medicine including naturopathic, chiropractic, osteopathic, and veterinary medicine, can meet the undergraduate requirements for these programs through enrollment in the College of Agriculture and Life Sciences. Upon admission, each student will be assigned a faculty advisor knowledgeable in preprofessional preparation. Competition for admission to professional schools is very keen, and a superior academic record throughout an undergraduate program is necessary to receive consideration for admission. Due to the intense competition, only a small percentage of those first-year students declaring an interest in professional schools are admitted after completion of the baccalaureate. Consequently, students must select a major, in an area of their choice, to prepare them for a career other than medical sciences. The preprofessional requirements will be met concurrently with the major requirements for the B.S. degree. Students interested in human medical sciences often enroll in either biochemistry, biological science, nutrition and food sciences, microbiology, or molecular genetics. Those interested in veterinary medicine usually enroll in animal science or biological science.

Each student prepares a four-year program of courses, with the guidance of a faculty advisor, to meet requirements for a B. S. degree in their major. It is recommended that students complete the following courses to meet minimum requirements of most professional schools. It is the responsibility of each student to contact the professional schools of choice to determine the exact entrance requirements.

### Human Medical and Dental Schools:

Topic	Course
Biology with laboratory	<u><a href="#">BCOR 011/BCOR 012</a></u>

Education	Chemistry with laboratory: inorganic	<a href="#"><u>CHEM 031/CHEM 032</u></a>
• Graduate College		
• Honors College	Chemistry with laboratory: organic	<a href="#"><u>CHEM 141/CHEM 142</u></a>
• School of Business Administration		
• The Rubenstein School of Environment and Natural Resources	Physics with laboratory: with math	<a href="#"><u>PHYS 011/PHYS 021, PHYS 012/PHYS 031</u></a>
	Physics with laboratory: with calculus	<a href="#"><u>PHYS 031/PHYS 021, PHYS 042/PHYS 031</u></a>
Policies and General Information	Mathematics (requirement varies)	<a href="#"><u>MATH 019/MATH 020</u></a> or <a href="#"><u>MATH 021/MATH 022</u></a>
Faculty and Administration	Humanities, Social Sciences, Languages	Students must complete the minimum College requirements in this area that includes English composition and speech. Advanced composition and additional courses in this area are encouraged as time allows.
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### Veterinary Medical Schools:

All of the courses listed above under Human Medical Schools plus:

Topic	Course
Biochemistry	<a href="#"><u>AGBI 201/AGBI 202</u></a>
Written English	<a href="#"><u>ENGS 050</u></a> or <a href="#"><u>ENGS 053</u></a>
Genetics	BCOR 101
Microbiology	MMG 101

Several schools require a course in introductory animal sciences, vertebrate embryology, or statistics. Students should consult their advisor regarding specific requirements for the various veterinary schools.

Finally, both human and veterinary medical schools want to see a history of interest in medicine. It is important for students to work with physicians or veterinarians and gain first-hand knowledge of their chosen profession. Volunteer or paid work in hospitals, nursing homes, or emergency centers is important. Commercial farm experience is also valuable for preveterinary students.

Students applying to the College of Agriculture and Life Sciences who express an interest in medicine or preveterinary medicine should present evidence of high performance in high school level science and mathematics courses, plus additional

supporting documentation such as high SAT scores, strong letters of recommendation, and a motivational summary statement.

### **Pre-Medical Enhancement Program:**

The Pre-Medical Enhancement Program (PEP) is a joint offering of the College of Arts and Sciences, the College of Agriculture and Life Sciences, and the College of Medicine to provide enhanced opportunities for a select group of highly qualified pre-medical students. Interested students apply to PEP in the second semester of their first year. Those students accepted in the PEP program will be assigned a practicing physician-mentor who will introduce the concepts of patient care and practice management through regularly scheduled office-based/clinical experiences. The PEP Coordinator in the College of Medicine will provide information on opportunities for medical research experience and volunteer/employment possibilities in the health sciences or health policy fields. On a monthly basis, students will receive listings about special educational offerings at the College of Medicine and the Academic Medical Center. PEP students will also be able to participate in practice interviews with members of the University of Vermont Pre-Medical Committee. In their junior year, PEP students will be able to apply to the University of Vermont College of Medicine. More information is available on [Pep at the Career Service Web Site](#) .

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## College of Agriculture and Life Sciences Prevetterinary Programs

### UVM/Tufts School of Veterinary Medicine Program

The UVM College of Agriculture and Life Sciences and Tufts School of Veterinary Medicine in Massachusetts offer a B.S./D.V.M. program to selected students in their sophomore year. Students who meet rigorous eligibility criteria may apply to Tufts during their sophomore year for guaranteed admission upon graduation from UVM. The student will be awarded a B.S. degree from The University of Vermont and then begin the D.V.M. program at Tufts. The successful student will earn a D.V.M. degree from Tufts School of Veterinary Medicine after the fourth year at Tufts.

It is important to recognize that some excellent students may not be admitted to the joint B. S./D.V.M. because of space limitation. These students may be admitted to UVM as preveterinary students, complete four years at UVM, graduate with a B. S. degree, and apply to any veterinary school of their choosing. There are many options to meet individual educational goals.

### UVM/Massey University Veterinary School Program

The UVM College of Agriculture and Life Sciences and Massey University Veterinary School in New Zealand offer a B.S./B.V.Sc program. Their B.V.Sc degree is equivalent to the D.V.M. or V.M.D. degree offered in the United States since Massey University is accredited by the American Veterinary Medical Association (AVMA). Massey has guaranteed admission for the top 5 UVM applicants each year.

The specific courses to be taken for this option start with the Core Program of the College. In addition, each student will be required to successfully complete the following courses and credits. The student must have maintained a minimum GPA of 3.0 in the sciences, and must also have met the required minimum score for the Graduate Record

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## Exam (GRE) tests.

- Graduate College
- Honors College
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Course	Credits
Biology	8
Inorganic Chemistry	8
Organic Chemistry	8
Physics	10
Anatomy & Physiology of Domestic Animals	4

Applications will be made directly to Massey University during the Junior or Senior year at UVM and all decisions will be made by the Massey University Admissions Committee.

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### Further Information

For information regarding admissions and/or applications to these exciting programs, contact the [Admissions Office](#) ☐, 194 S. Prospect Street, Burlington, VT 05401-3596. For specific program information contact Dr. Karen Plaut, Chair, Animal Science, College of Agriculture and Life Sciences, 570 Main St., 102 Terrill Hall, UVM, Burlington, Vermont 05405, 802-656-0155 or e-mail [kplaut@uvm.edu](mailto:kplaut@uvm.edu).

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## Justin Morrill Honors Program

The Justin Morrill Honors Program is a four-year honors sequence for CALS students who are accepted into the University Honors College. It is designed for highly qualified and motivated students desiring an academically challenging undergraduate experience in the broad areas of the life sciences and agriculture.

In their first two years, Justin Morrill scholars will join honors students from across the university in small, interdisciplinary, honors seminars conducted by renowned scholars from the University of Vermont and other institutions. In their junior and senior years, Justin Morrill scholars do honors work within the College of Agriculture and Life Sciences. The program culminates with an honors thesis, an opportunity to conduct independent scholarly research under the guidance of a faculty advisor.

Entering first-year students with outstanding academic records will be invited to participate in the Honors College. Scholars will be required to maintain a minimum grade point average, participate in program activities, enroll in honors classes and successfully complete a Senior Honors Thesis.

Matriculated students in CALS who demonstrate academic excellence during their first year may apply for sophomore admission to the Honors College.

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## Regulations Governing Academic Standards

The College of Agriculture and Life Sciences (CAL S) Studies Committee reviews the semester grades of all students in the college whose semester or cumulative grade- point average falls below the 2.00 minimum, as well as the academic progress of all students placed on academic probation the previous semester. Detailed information may be obtained from the CAL S Student Services Office, 106 Morrill Hall, (802) 656-2980. □

### Guidelines

A student whose semester grade-point average falls below a 2.00 will be placed "on trial" and will be given a target semester average to achieve by the end of the following semester. A student whose semester grade-point average is below a 1.00, or who fails to achieve the stated target average while "on trial," may be placed on "intermediate trial." Any student with a prolonged history of poor grades, including students who consistently fail to achieve the target semester average, may be placed on "final trial." A student who does not achieve the target semester grade-point average while on "final trial" is a candidate for dismissal from the University. □

### Appeal

A student may appeal a dismissal by submitting a written appeal to the CAL S Studies Committee within two working days of the receipt of the dismissal letter. The student will be asked to appear in person before the Studies Committee to appeal the case. □

## Education

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### Continuing Education and Readmission

A student who has been dismissed from the College may take up to six credits of course work through UVM Continuing Education in an attempt to improve his/her grades. To gain readmission to the College, the student must achieve no less than a 2.67 semester average on the six credits. Dismissed students may enroll in six credits at another institution, and should work with the Office of Transfer Affairs to insure transferability.

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## Requirements for All Undergraduate Degree Students

### College and School Requirements

Undergraduate degrees are conferred on the recommendation of the colleges/schools. Specific degree requirements may be found in the catalogue sections devoted to the respective colleges/schools.

### Grades

To be eligible for graduation, a student must have attained a cumulative grade-point average sufficient to meet the minimum requirements for the college/school in which the student is officially enrolled. Beginning with the class of 1984, the minimum grade-point average for graduation is 2.00. Grades in courses accepted for transfer credit are excluded in computing this average.

### UVM Residency in Last 30 of 45 Credit Hours

Every degree candidate must have taken 30 of the last 45 credit hours (15 of the last 30 for two-year students) in residence at the University before being awarded their degree. An exception to this rule exists for those students who have completed three years of premedical study in the University and are awarded their degrees after successful completion of one year of study in any approved college of medicine. Other exceptions to this rule may be made only upon decision of the dean or the appropriate faculty committee of the student's college/school.

### Second Bachelor's Degree

A student may earn more than one degree by satisfying all of the requirements for those degrees.

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### Physical Education Requirement

- Graduate College
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Two physical education credits, normally completed during the first or sophomore year, are required of all undergraduate students in four-year programs. These credits will be included in the total number of hours required for graduation. Students may opt to take physical education on a pass/no pass basis. Medical examinations are required of all new students. Those with serious conditions may be given restricted work or may be excused by the Director of the Student Health Center.

Students 25 years of age or older at time of admission or readmission are exempt from physical education requirements.

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## College of Arts and Sciences (CAS)

### Contact Information

*University of Vermont  
College of Arts and Sciences  
300 Waterman Building  
85 South Prospect Street  
Burlington, VT 05405*

Phone: (802) (802) 656-3166  
Fax: (802) (802) 656-4529  
Email: [a-sdean.admin@uvm.edu](mailto:a-sdean.admin@uvm.edu)

[Web Site](#)

### Overview

The College of Arts and Sciences at UVM combines the advantages of a small liberal arts college and the resources of a major research institution. It provides students with a sound liberal education through close interaction with nationally and internationally noted scholars. This close interaction helps students acquire knowledge and scholarly discipline that enables them to think critically about issues they will confront in their professional and personal lives. The College's academic programs acquaint

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- students with the intellectual, cultural and aesthetic heritage of our complex world. Our programs also seek to prepare students for entry into rewarding careers in a variety of fields and for advanced study that may be prerequisite to other opportunities. More and more professional schools, corporate managers and graduate schools seek individuals who have a fine liberal arts background.
- In UVM's College of Arts and Sciences students are encouraged to develop depth and breadth of knowledge, and critical thinking and communication skills that are the hallmarks of a liberal education. Students begin developing these skills in a first-year seminar, and as they complete degree requirements they have the opportunity to explore a wide range of disciplines spanning literature, the humanities, the fine arts, foreign languages, the natural and social sciences and mathematics. The College offers over forty majors from which students may choose.

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- [Art History \(B.A.\)](#)
- [Art: Studio Art \(B.A.\)](#)
- [Asian Studies \(B.A.\)](#)
- [Biology \(B.A.\)](#)
- [Botany \(B.A.\)](#)
- [Canadian Studies \(B.A.\)](#)
- [Chemistry: Biomolecular \(B.A.\)](#)
- [Chemistry: Environmental \(B.A.\)](#)
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- [French \(B.A.\)](#)
- [Geography \(B.A.\)](#)
- [Geology \(B.A.\)](#)
- [German \(B.A.\)](#)
- [Greek \(B.A.\)](#)
- [History \(B.A.\)](#)
- [Individual Design \(B.A.\)](#)
- [Italian Studies \(B.A.\)](#)
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- [Biological Science, Integrated \(B.S.\)](#)
- [Chemistry \(B.S.\)](#)
- [Environmental Sciences \[CAS\] \(B.S.\)](#)
- [Geology \(B.S.\)](#)
- [Physics \(B.S.\)](#)
- [Psychology: Biobehavioral \(B.S.\)](#)
- [Psychology: Traditional \(B.S.\)](#)
- [Zoology \(B.S.\)](#)

### **Undergraduate Minor (Minor)**

- [African Studies \(Minor\)](#)
- [ALANA U.S. Ethnic Studies \(Minor\)](#)
- [Archaeology \(Minor\)](#)
- [Art History \(Minor\)](#)
- [Art: Studio Art \(Minor\)](#)
- [Asian Studies \(Minor\)](#)
- [Biology \(Minor\)](#)
- [Botany \(Minor\)](#)
- [Canadian Studies \(Minor\)](#)
- [Chemistry \(Minor\)](#)
- [Chinese \(Minor\)](#)



- [Classical Civilization \(Minor\)](#)
- [Communication Sciences \(Minor\)](#)
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- [Geology \(Minor\)](#)
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- [Gerontology \(Minor\)](#)
- [Greek Language and Literature \(Minor\)](#)
- [History \(Minor\)](#)
- [Holocaust Studies \(Minor\)](#)
- [Individual Design \(Minor\)](#)
- [Italian \(Minor\)](#)
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- [Japanese \(Minor\)](#)
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- [Mathematics: Applied \(Minor\)](#)
- [Mathematics: Pure \(Minor\)](#)
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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Anthropology (B.A.)

## Anthropology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty credits in Anthropology including [ANTH 021](#), [ANTH 024](#), [ANTH 026](#), and [ANTH 028](#); [ANTH 225](#) or [ANTH 228](#) (recommended for the junior year) and five additional courses, of which three should be at the 100-level and at least one at the 200-level.

### Affiliations

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## Art History (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty credits in Art History, including six credits from [ART 005](#), [ART 006](#) and [ART 008](#); 12 credits to include three credits from each of four different categories ([ART 196](#) courses in these categories also qualify): Ancient and Medieval ([ART 146](#), [ART 148](#), [ART 149](#), [ART 155](#)), Early Modern European ([ART 158](#), [ART 161](#), [ART 164](#), [ART 165](#)), Modern, American, and Canadian ([ART 170](#), [ART 172](#), [ART 174](#), [ART 177](#), [ART 180](#)), Asian ([ART 185](#), [ART 187](#), [ART 188](#), [ART 192](#)), Other Non-Western Traditions, New Approaches to Art History, and Contemporary Art ([ART 140](#), [ART 179](#), [ART 189](#), [ART 199](#)); 12 additional Art History credits, to include at least one course (three credits) numbered 282 or above to be taken during the junior or senior year, preferably during the senior year. Six credits of Studio Art; the study of a foreign language through 51-52. French or German is strongly recommended for students considering eventual graduate work in Art History.

### Affiliations

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## Art: Studio Art (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty credits in Studio Art, including nine credits in foundation courses (to include [ART 003](#) and two from [ART 001](#), [ART 002](#), [ART 004](#)) with three different instructors; 15 credits at the 100-level (only three of which may be [ART 197](#); six of which may be [ART 195](#)) with two different instructors, including courses in the areas of two-dimensional study (drawing, painting, printmaking, photography, film, and video) and of three-dimensional study (sculpture, ceramics, fine metals); and six credits at the 200-level, three of them in the senior year; nine hours of Art History, including two of the following: [ART 005](#), [ART 006](#), or [ART 008](#); and one of the following: [ART 140](#), [ART 170](#), [ART 172](#), [ART 174](#), [ART 177](#), [ART 179](#), [ART 180](#), and [ART 199](#) when approved for this requirement (permission depends upon topic; check with Art Department).

Note: A Studio Art major may not take more than one Evening Division course per semester in Studio Art.

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## Asian Studies (Bachelor of Arts)

### Overview

- [Asian Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Asian Studies major consists of at least 33 credit hours in courses from the Asian Studies listing (see Courses of Instruction; Asian Studies) to include the following:

- Completion of two years' (normally 16 credits) study of a language of the geographic subarea of concentration. No more than 16 hours of language study may be counted toward the major. For students who have demonstrated fluency in the language of the subarea of concentration (for instance, native speakers of the language), the language requirement will be waived. Such students will still be required to complete the 33-credit hour requirement.
- The remaining credit hours must include at least nine credits at the 100-level and three credits at the 200-level. These credits must be selected from at least three academic disciplines. Language courses may not be used to fulfill this requirement.

Note: Courses significantly but not entirely on Asia may be counted toward a student's major requirements only if papers or projects relevant to their Asian subarea or their Asian thematic focus have been completed. The Dean's Office must receive written approval from the advisor in order for these courses to be counted toward the major.

Education

Students who major in Asian Studies and minor in an Asian language may overlap only one course as is stipulated in the College of Arts and Sciences.

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• Honors College

• School of Business  
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• The Rubenstein  
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## Biology (Bachelor of Arts)

### Overview

The B.A. in Biology degree offers concentrations in the following areas:

- **Cell and Molecular Biology** serves students with interests in cell, molecular and developmental biology.
- **Environmental Biology** is appropriate for students with interests in ecology, evolution, conservation biology or animal behavior.
- **Forensic Biology** is appropriate for students wishing to explore the fast growing discipline of criminal forensics and prepares students for government positions and for entry into graduate programs.
- **General Biology** serves students who wish a very broad training in life science, including zoology.
- **Neurobiology** focuses on molecular and cellular aspects of the nervous system. Funding from the Howard Hughes Medical Institute allows students to take courses offered by faculty of three departments.
- **Professional Biology** is appropriate for students with interests in the medical, veterinary, dental and allied health fields.

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

CHEM 031/ CHEM 032 or CHEM 35/CHEM 036 to be taken the first year if possible; CHEM 141/CHEM 142; PHYS 011 or PHYS 031 in combination with PHYS 021 (and PHYS 012 or PHYS 042 in combination with PHYS 022 recommended); MATH 019/ MATH 020; or MATH 021/ MATH 022. Thirty-three hours of biology including introductory

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biology ([BCOR 011](#), [BCOR 012](#), or [BIOL 001B](#), [BIOL 002B](#) is preferred, but [BIOL 001A](#), [BIOL 002A](#) is accepted); [BCOR 101](#), [BCOR 102](#), [BCOR 103](#); [BIOL 255](#), and three additional 200-level courses in one of several concentrations (including at least one with a laboratory). A list of courses in each concentration is provided below. One course may be taken from outside the Department from approved offerings from other biologically-oriented departments. For a list of approved offerings in other departments, consult the Biology Department Office. Neither College honors nor [BIOL 297/BIOL 297](#) will count toward the 200 level course requirement.

NOTE: Most professional schools (e.g. medicine, dentistry, veterinary, physical therapy) require the equivalent of [PHYS 012](#) or [PHYS 042](#) in combination with [PHYS 022](#).

### Cell and Molecular Biology

Students may choose from: [BIOL 205](#), [BIOL 212](#), [BIOL 223](#), [BIOL 231](#), [BIOL 263](#), [BIOL 265](#), [BIOL 267](#), [HON 208](#) and [HON 209](#). In addition, students may take approved courses offered by other biologically-oriented departments.

### Environmental Biology

BCOR 102 is required of all biology majors. Other recommended courses in this concentration include, but are not restricted to: [BIOL 203](#), [BIOL 206](#), [BIOL 208](#), [BIOL 217](#), [BIOL 238](#), [BIOL 246](#), [BIOL 254](#), [BIOL 255](#), [BIOL 264](#), [BIOL 270](#) and [BIOL 295](#).

### Forensic Biology

[BIOL 288](#) (a one-credit forensic biology seminar) and [CHEM 121](#). Students should also take three courses from [BIOL 205](#), [BIOL 209](#), [BIOL 212](#), [BIOL 254](#), [BIOL 268](#), [BIOL 296](#) (self-designed genetics laboratory), [PHRM 272](#).

### General Biology

After consultation with their biology department faculty advisor, students take a variety of courses drawn from the approximately three dozen offered by the biology department or from other approved courses in life science.

### Neurobiology

Three course are the core, [BIOL 261](#), [BIOL 262](#) and [PSYC 221](#). Students may also take [ANNB 202](#), [PHRM 290](#), [PSYC 121](#), [PYSC 220](#) and [PSYC 223](#), as well as other advanced courses in cell and molecular biology.

### Professional Biology

[BIOL 205](#), [BIOL 212](#), [BIOL 217](#), [BIOL 219](#), [BIOL 223](#), [BIOL 246](#), [BIOL 254](#), [BIOL 265](#), [BIOL 295](#), [HON 208](#) and [HON 209](#). In addition, students may take approved courses offered by other biologically-oriented departments.

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## Botany (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[MATH 021/MATH 022](#); or [MATH 021](#) and [STAT 141](#) or [STAT 211](#); or [MATH 019/MATH 020](#) and [STAT 141](#) or [STAT 211](#); [PHYS 021/PHYS 022](#); and [PHYS 011/PHYS 012](#) or preferably [PHYS 031/PHYS 042](#); [CHEM 042](#) or preferably [CHEM 141/CHEM 142](#); [BIOL 001/BIOL 002](#); or [BCOR 011](#), [BCOR 012](#); [BCOR 101](#), [BOT 104](#), [BOT 108](#); and [BOT 109](#) or [BCOR 102](#); two additional semester courses in botany, at least one at the 200-level.

Six credits of modern foreign language are strongly recommended. Students may petition the department to substitute other courses for certain requirements in the planning of individual programs.

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- Colleges and Schools: [College of Arts and Sciences](#). [College of Agriculture and Life Sciences](#).
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## Canadian Studies (Bachelor of Arts)

### Overview

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### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Canadian Studies major requires at least 30 credit hours to consist of the following:

- Three required courses: - [Introduction to Canada](#); [HST 066](#) - Canada Since 1868; [AIS 296](#) - Seminar on Modern Canada.
- Seven additional courses, of which at least six must be at the 100-level or above, and of which at least five must be chosen from the following 100 percent Canadian content list: [AIS 195](#), [AIS 196](#), [AIS 295](#); [ANTH 167](#); [ART 180](#), [ART 282](#) (when topic is Canadian); [BSAD 234](#); [ENGS 157](#), [ENGS 158](#); [FREN 293](#), [FREN 285](#); [GEOG 052](#), [GEOG 210](#); [GEOL 272](#), [GEOL 273](#) (when this field course goes to Canada); [HST 065](#), [HST 265](#), [HST 165](#); [POLS 173](#).
- Majors will study French language through the intermediate level (FREN 052) or higher.

Majors are strongly encouraged to acquire an intermediate/advanced proficiency by completing at least [FREN 201](#). Majors pursuing intermediate/advanced proficiency should consult with the Canadian Studies faculty of the Romance Languages Department to determine an appropriate plan of study.

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## Chemistry: Biomolecular (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 035/CHEM 036](#) (or [CHEM 031/CHEM 032](#); or [CHEM 031/CHEM 036](#)), [CHEM 121](#), [CHEM 131](#), [CHEM 143/CHEM 144](#) (or [CHEM 141/CHEM 142](#); or [CHEM 141/CHEM 144](#)), [CHEM 162](#), [CHEM 167](#) or [MATH 121](#), [CHEM 201](#), [CHEM 205](#), [CHEM 282](#); [MATH 021/MATH 022](#); [PHYS 021/PHYS 022](#), [PHYS 031](#), [PHYS 042](#); [BIOL 001/BIOL 002](#) (or [BCOR 011/BCOR 012](#)), [BCOR 103](#) or [MMG 102](#); and one of the following: [BIOC 206](#), [BIOC 320](#), [BIOC 321](#), [PHRM 328](#) or one course chosen from a list of approved courses.

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## Chemistry: General Chemistry (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 035/CHEM 036](#) (or [CHEM 031/CHEM 032](#); or [CHEM 031/CHEM 036](#)), [CHEM 121](#), [CHEM 131](#), [CHEM 143/CHEM 144](#) (or [CHEM 141/CHEM 142](#); or [CHEM 141/CHEM 144](#)), [CHEM 146](#), [CHEM 161/CHEM 162](#), [CHEM 167](#) or [MATH 121](#), [CHEM 201/CHEM 202](#), [CHEM 221](#), [CHEM 282](#); [MATH 021/MATH 022](#); [PHYS 021/PHYS 022](#), [PHYS 031](#), [PHYS 042](#).

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Classical Civilization (B.A.)

## Classical Civilization (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

36 hours consisting of 30 in the Major Discipline and 6 in Related Courses. Of these 36 hours, 12 must be at the 100-level or above. Major Discipline: All courses in Classics, Latin, Greek, Ancient History, and Ancient Art are applicable, of which 1 course in Ancient Art (Art 146, 148, or 149) and any 2 courses in Ancient History (Classics 21, 23, 121, 122, 149, 221, 222) are required. Related Courses: For a list of approved related courses in Fine Arts, Humanities, Social Sciences and Natural Sciences, students should consult with the Classics department. Foreign Language: Fulfillment of the language distribution requirement of the College of Arts and Sciences is required, preferably with Latin or Greek.

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Communication Sciences (B.A.)

## Communication Sciences (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Departmental Requirements: 80, 90, 94, 101, 160 or 162, 164, 208, 262, 271, 272, 281.

Additional Requirements: Biology 4; Psychology 1, 161; Statistics 111 or 141; and one physical science course with lab from Physics, Chemistry, Geology, or Astronomy.

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Computer Science (B.A.)

## Computer Science (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CS 21](#), [CS 26](#), [CS 100](#), [CS 101](#), [CS 103](#), [CS 104](#), [CS 224](#) or [CS 243](#), [CS 292](#), and three additional computer science courses at the 200-level or above, for at least nine additional credits, not more than three credits of which may be independent study; [MATH 19](#) + [MATH 20](#) or [MATH 21](#) + [MATH 22](#) ([MATH 21](#) + [MATH 22](#) are recommended), [MATH 54](#); [STAT 153](#); the distribution requirement in natural science must be satisfied, and it is recommended that this requirement be fulfilled with a two-semester laboratory science sequence.

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## Economics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three credits in economics and three hours in mathematics as follows: [EC 011](#), [EC 012](#); [MATH 019](#); three courses from EC 20-160 or EC 194-196, two of which must be numbered 110 or higher; the methods and theory courses in Economics: [EC 170](#), [EC 171](#), [EC 172](#); and three Economics courses numbered 200 or higher. No more than three credits from [HON 218](#), [HON 219](#), [EC 291](#), [EC 292](#), [EC 297](#), [EC 298](#) may be applied towards the major. Students are urged to take MATH 19 early in the program.

### Affiliations

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## English (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three credits at the level of [ENGS 005](#) or above to include: [ENGS 086](#) ([ENGS 085](#) is recommended for first-year students planning to major in English) and at least twenty-one credits at or above 100-level, at least three of which must be from ENGS 201-282 (Senior Seminars). Of the credits above 100-level: (a) at least three credits must be in study of the English language (listed in Departmental offerings as Category A); (b) at least three credits must be in Ancient, Medieval and 16th and 17th Century Literary Traditions (listed in Departmental offerings as Category B); and (c) at least three credits must be in 18th and 19th Century Literature Traditions (listed in Departmental offerings as Category C); and (d) at least three credits must be in 20th and 21st Century Literary Traditions (listed in Departmental offerings as category D). OneWorld Literature course approved by the English Department may count toward the major; where appropriate, this course may be substituted for one course in the distribution categories. No more than nine credits of Advanced Writing (ENGS 117-120) shall count toward the major. No more than nine credits of Film Studies at any level shall count toward the major.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[English Department](#).

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Environmental Studies [CAS] (B.A.)

## Environmental Studies [CAS] (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-eight credits including [ENVS 001](#), [ENVS 002](#), [ENVS 151](#), [ENVS 201](#), and six credits of [ENVS 202](#) and/or [ENVS 203](#); plus an Individually-Designed Program containing 18 credits of approved environmentally-related courses at 100 or higher level, including three credits at the 200-level, six credits of Environmental Studies courses, with at least one course in each of these areas\*: environmentally-related natural sciences, humanities, social sciences, and international studies (may be fulfilled by study abroad experience). The courses of the Individually-Designed Program combine, along with the senior project and thesis, to provide a coherent major for the student.

(\*) Students are cautioned that courses approved in these areas by Environmental Studies are not intended to fulfill the distribution requirements in the College of Arts and Sciences.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#). [College of Agriculture and Life Sciences](#). [The Rubenstein School of Environment and Natural Resources](#).
- Departments and Programs: [Environmental Program](#).

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## European Studies (Bachelor of Arts)

### Overview

- [European Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A total of 33 credits in approved European Studies courses to include nine credits at the 200-level. No more than 12 credits may be taken from any one discipline. Only 15 credits of transfer credit may be applied toward the major. Students must consult closely with their European Studies advisor in the development of a coherent program of courses.

- A. European Studies seminar: Senior research project: All seniors must complete a research project for at least three credits on a subject focused on northern, western, or Mediterranean Europe and approved by the European Studies subcommittee. This requirement can be fulfilled by [AIS 291](#) (European Studies Seminar); [AIS 234](#) and [AIS 235](#) (Honors/International Studies); [AIS 297](#) or [AIS 298](#) (Advanced Readings and Research). Students should expect to use their competency in a European language (other than English) in this research project where relevant. Upon request, the European Studies subcommittee may approve a research project done in conjunction with a 200-level seminar offered by one of the college's departments.
- B. European culture and thought: Twelve hours from the approved list to include six hours at the 100 level or above. [ART 005](#), [ART 006](#), [ART 148](#), [ART 149](#), [ART 155](#), [ART 158](#), [ART 161](#), [ART 164](#), [ART 165](#), [ART 170](#), [ART 172](#), [ART 174](#), [ART 177](#), and [ART 179](#) or [ART 282](#) (when the content is European); [CLAS 024](#), [CLAS 033](#),

Education	<p><a href="#">CLAS 035</a>, <a href="#">CLAS 037</a>, <a href="#">CLAS 042</a>, <a href="#">CLAS 153-159</a>; <a href="#">ENGS 021</a>, <a href="#">ENGS 022</a>, <a href="#">ENGS 025-28</a>, <a href="#">ENGS 085</a>, <a href="#">ENGS 086</a>, <a href="#">ENGS 102</a>, <a href="#">ENGS 131</a>, <a href="#">ENGS 133</a>, <a href="#">ENGS 134</a>, <a href="#">ENGS 135</a>, <a href="#">ENGS 136</a>, <a href="#">ENGS 137</a>, <a href="#">ENGS 161</a>, <a href="#">ENGS 162</a>, <a href="#">ENGS 165</a>, <a href="#">ENGS 221</a>, <a href="#">ENGS 222</a>, <a href="#">ENGS 241</a>, <a href="#">ENGS 242</a>; <a href="#">FILM 005</a>, <a href="#">FILM 006</a>, <a href="#">FILM 107</a>, <a href="#">FILM 161</a>; <a href="#">FREN 111</a>, <a href="#">FREN 112</a>, <a href="#">FREN 235</a>, <a href="#">FREN 247</a>, <a href="#">FREN 255</a>, <a href="#">FREN 265</a>, <a href="#">FREN 266</a>, <a href="#">FREN 275</a>, <a href="#">FREN 276</a>, <a href="#">FREN 291</a>, <a href="#">FREN 292</a>; <a href="#">GERM 104</a>, <a href="#">GERM 121</a>, <a href="#">GERM 122</a>, <a href="#">GERM 155</a>, <a href="#">GERM 156</a>, <a href="#">GERM 201</a>, <a href="#">GERM 213</a>, <a href="#">GERM 214</a>, <a href="#">GERM 225</a>, <a href="#">GERM 226</a>, <a href="#">GERM 237</a>, <a href="#">GERM 238</a>, <a href="#">GERM 247</a>, <a href="#">GERM 248</a>, <a href="#">GERM 251</a>, <a href="#">GERM 252</a>, <a href="#">GERM 263</a>, <a href="#">GERM 264</a>, <a href="#">GERM 271</a>, <a href="#">GERM 273</a>, <a href="#">GERM 275</a>, <a href="#">GERM 276</a>, <a href="#">GERM 278</a>, <a href="#">GERM 279</a>, <a href="#">GERM 281</a>, <a href="#">GERM 282</a>; Greek: all courses above 100-level; <a href="#">ITAL 121</a>, <a href="#">ITAL 122</a>, <a href="#">ITAL 157</a>, <a href="#">ITAL 158</a>; Latin: all courses above 100-level; <a href="#">MU 111</a>, <a href="#">MU 112</a>, <a href="#">MU 113</a>; <a href="#">PHIL 101</a>, <a href="#">PHIL 102</a>, <a href="#">PHIL 105</a>, <a href="#">PHIL 107</a>, <a href="#">PHIL 140</a>, <a href="#">PHIL 147</a>, <a href="#">PHIL 151</a>, <a href="#">PHIL 160</a>, <a href="#">PHIL 260</a>; <a href="#">PSS 141</a>, <a href="#">PSS 142</a>, <a href="#">PSS 146</a>; <a href="#">REL 022</a>, <a href="#">REL 111</a>, <a href="#">REL 116</a>, <a href="#">REL 122</a>, <a href="#">REL 124</a>, <a href="#">REL 173</a>, <a href="#">REL 224</a>, <a href="#">REL 226</a>, <a href="#">REL 228</a>, <a href="#">REL 280</a>; <a href="#">SPAN 141</a>, <a href="#">SPAN 236</a>, <a href="#">SPAN 237</a>, <a href="#">SPAN 246</a>, <a href="#">SPAN 265</a>, <a href="#">SPAN 276</a>, <a href="#">SPAN 277</a>, <a href="#">SPAN 291</a>, <a href="#">SPAN 292</a>; <a href="#">THE 136</a>, <a href="#">THE 137</a>, <a href="#">THE 138</a>; <a href="#">WLIT 011</a>, <a href="#">WLIT 014</a>, <a href="#">WLIT 017</a>, <a href="#">WLIT 018</a>, <a href="#">WLIT 024</a>, <a href="#">WLIT 035</a>, <a href="#">WLIT 087</a>, <a href="#">WLIT 095</a>, <a href="#">WLIT 096</a>, <a href="#">WLIT 111</a>, <a href="#">WLIT 114</a>, <a href="#">WLIT 117</a>, <a href="#">WLIT 118</a>, <a href="#">WLIT 122</a>, <a href="#">WLIT 153-WLIT 156</a>.</p>
• Graduate College	
• Honors College	
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- C. European history and society: Twelve hours from the approved list to include six hours at the 100 level or above. [ANTH 151](#), [BSAD 236](#); [EC 113](#); [GEOG 055](#), [GEOG 155](#); [HST 013](#), [HST 014](#), [HST 019](#), [HST 021-HST 027](#), [HST 085](#), [HST 086](#), [HST 115](#), [HST 120-HST 136](#), [HST 139](#), [HST 185](#), [HST 186](#), [HST 190](#), [HST 191](#), [HST 221](#), [HST 222](#), [HST 224-HST 228](#), [HST 285](#); [POLS 171](#), [POLS 257](#), [POLS 276](#), [POLS 287](#).
- D. European language: Six hours of a European language other than English at or above the 100-level. Students who fulfill nine or more hours of their "Culture and Thought" requirement through the study of any one such language must fulfill this requirement in a second European language other than English.

Note: Other equivalent courses within each area may be accepted with permission of the Director of European Studies.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Area and International Studies Program](#).

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## Film and Television Studies (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three hours, including at least six credits from among [ART 4](#), [FTS 7](#), [FTS 8](#), and [FTS 9](#); at least 21 hours at/or above the 100-level, including three of the following four: [FTS 121](#), [FTS 122](#), [FTS 123](#) and [FTS 124](#); and either [FTS 271](#) or [FTS 272](#). The remaining courses are to be selected in consultation with the FTS program director from courses in FTS (100-level FTS courses may be repeated for credit as courses vary) and from courses on media studies and production in other departments in the College of Arts and Sciences, such as [ART 139](#), [ART 140](#), [ART 143](#), [ART 144](#) and [ART 244](#); [ITAL 122](#); [SOC 43](#), [SOC 150](#) and [SOC 243](#); and [SPAN 290](#). (Students should consult the FTS course brochure and the Registrar's web page each semester for details about available courses.)

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[English Department](#).

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- Continuing

## French (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three credits in French numbered FREN 100 or above of which fifteen credits must be at the 200-level. Required courses: [FREN 101](#) and [FREN 111](#) or [FREN 112](#). Literature requirement: twelve credits (including [FREN 111](#) or [FREN 112](#)). Culture requirements: three credits ([FREN 104](#), [FREN 105](#), [FREN 292](#) or [FREN 293](#)).

*Note:* Only three credits of Readings and Research ([FREN 197](#), [FREN 198](#)) and Advanced Readings and Research ([FREN 297](#), [FREN 298](#)) may be counted toward the major.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Romance Languages Department](#).

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Geography (B.A.)

## Geography (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Ten courses (thirty credits), which must include: [GEOG 002](#) or [GEOG 043](#); [GEOG 060](#) or [GEOG 073](#); [GEOG 081](#); any one regional course (from [GEOG 051](#), [GEOG 052](#), [GEOG 055](#), [GEOG 056](#), [GEOG 057](#), [GEOG 090](#), [GEOG 092](#), [GEOG 151](#), [GEOG 154](#), [GEOG 155](#), [GEOG 162](#), [GEOG 190](#) or [GEOG 192](#)); any three courses at the 100-level; any one course at the 200-level.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Geography Department](#).

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## Geology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

One introductory geology course ([GEOL 001](#), [GEOL 005](#), [GEOL 055](#)), [GEOL 062](#), [GEOL 101](#), [GEOL 110](#), [GEOL 260](#). At least three credits of field experience are highly advisable ([GEOL 197](#), [GEOL 198](#), [GEOL 201](#)), field camp or field-based thesis). Three geology courses at the 100-level or above. Two additional courses in geology or approved science, mathematics, engineering, or statistics courses at the 100-level or above selected in consultation with a geology advisor. [MATH 019/MATH 020](#) (or [MATH 021/MATH 022](#)); [CHEM 031/CHEM 032](#) (or [CHEM 035/CHEM 036](#)); [PHYS 011/PHYS 021](#) ([PHYS 012/PHYS 022](#) also strongly recommended).

Note: [GEOL 007](#) - Earth Hazards will not count for the major or minor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Geology Department](#).

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- Continuing

## German (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours of German courses at the 100 level or above, including [GERM 155](#), [GERM 156](#); [GERM 281](#) or [GERM 282](#); two courses of world literature or English; and two courses of European or German history.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[German and Russian Department](#).

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- Continuing

## Greek (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours in courses above 50, among which 111, 112, and Classics 121 are required and one course in literature in translation above 100 and one course in Latin above 100 are applicable; a second foreign language, at least through the intermediate level, is recommended.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Classics Department](#).

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## History (Bachelor of Arts)

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### General Requirements

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- [Requirements for All Undergraduate Degree Students](#)

Academic Offerings

### Specific Requirements

Colleges and Schools

Thirty-three hours including six hours of any approved sequence of courses at the introductory level (00), nine hours at the intermediate level (100), and three hours at the advanced level (200). They must also include 15 hours of concentration in one of the Department's three areas of study (Western Hemisphere; Europe; Africa/Asia/Latin America) and six hours in each of the others. The 15-hour concentration must include one course at the intermediate level and one seminar at the advanced level. (The Western Hemisphere concentration must include three hours in Canadian or Latin American history.)

### Affiliations

- College of Agriculture and Life Sciences
- College of Arts and Sciences
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- College of Engineering and Mathematics
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- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[History Department](#).

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Individual Design (B.A.)

## Individual Design (Bachelor of Arts)

### Overview

The IDM is a nondepartmental, interdisciplinary major for those College of Arts and Sciences Bachelor of Arts candidates whose academic interests are not met by the major programs currently offered by the College. An IDM may not be a program of narrow professional training. Rather, it must lead to an intensive investigation of some broad area of human knowledge which is not covered by a single departmental discipline. During the senior year, IDM majors engage in a three-credit tutorial for which they complete a paper or an equivalent project which demonstrates the essential coherence of the major. A College Honors project (six credits) may be substituted for the tutorial requirement. Application to pursue an IDM should be approved by the Committee on Honors and Individual Studies before the end of the candidate's junior year. No more than 18 hours of the proposed major may be completed at the time of application. Additional information about the IDM program is available in the Office of the Dean.

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

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## Italian Studies (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three credit hours chosen from the categories below. Among the courses taught in English, no more than 12 credits may be applied from any one academic discipline. Students should consult with their Italian Advisor to assist in selecting a program of courses. Other equivalent courses may be accepted with permission of an Italian Advisor and the Chair of the Department of Romance Languages.

#### A. Courses in Italian

At least 15 credits in courses taught in Italian at the 100-level or above. One course in Readings and Research ([ITAL 197](#), [ITAL 198](#)) or Advanced Readings and Research ([ITAL 297](#), [ITAL 298](#)) may be applied to this category. A College Honors Thesis may be applied to this category if written in Italian.

#### B. Significant Italian content

Up to 18 credits from among the following courses: [ART 149](#), [ART 161](#), [ART 164](#), [ART 282](#) (if topic predominantly Italian); [CLAS 023](#), [CLAS 035](#), [CLAS 037](#), [CLAS 042](#), [CLAS 122](#); up to 6 credits of Latin language/literature any level; [ENGS 163](#) (♦Italian American Literature♦); [HST 125](#); [MU 128](#), [MU 228](#); [PHIL 105](#); [REL 124](#); [THE 150](#); [WLIT 13](#), [WLIT 113](#), [WLIT 122](#). A College Honors Thesis may be applied to this category if written in English.

#### C. Partial Italian content

Up to 9 credits from among the following courses: [ART 005](#), [ART 006](#), [ART 155](#) (Category B if predominantly Italian content); [CLAS 154](#), [CLAS 155](#), [CLAS 156](#); [GEOG 55](#), [GEOG 155](#); [HST 009](#), [HST 010](#), [HST 13/HST 014](#), [HST 024](#), [HST 025](#),



Education [HST 026](#), [HST 127](#), [HST 130](#); [MU 111](#), [MU 112](#), [MU 205](#) (if some Italian content); [POLS 141/POLS 142](#) (if some Italian content); [REL 122](#), [REL 173](#) (if topic pertinent to Italian culture), [REL 226](#).

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Romance Languages Department](#).

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- Continuing

## Latin (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours in courses above 50, among which 111, 112, and Classics 122 are required and one Classics course above 100 and one course in Greek above 100 are applicable; a second foreign language, at least through the intermediate level, is recommended.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Classics Department](#).

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Latin American Studies (B.A.)

## Latin American Studies (Bachelor of Arts)

### Overview

- [Latin American Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

- A. Twelve hours selected from the following five courses: [ANTH 161](#); [HST 062](#), [HST 063](#); [GEOG 056](#); [POLS 174](#).  
Two additional semester courses selected from Area and International Studies: [AIS 193](#), [AIS 194](#), [AIS 195](#), [AIS 196](#), [AIS 197](#), [AIS 198](#); [HST 161](#), [HST 163](#), [HST 164](#), [HST 262](#); or from courses recommended by the Program of Latin American Studies.
- B. Plus six hours of advanced Spanish ([SPAN 142](#), [SPAN 279](#), [SPAN 281](#), [SPAN 286](#), [SPAN 287](#), [SPAN 293](#), [SPAN 294](#)).
- C. An additional 12 hours from related courses chosen in consultation with advisor.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Area and International Studies Program](#).

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## Mathematics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[MATH 21](#), [MATH 22](#), [MATH 121](#), [MATH 52](#), and [MATH 124](#), plus 18 additional credits in Math./Statistics courses at 100 level or above, with at least 12 hours numbered 200 or higher.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#). [College of Engineering and Mathematics](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Mathematics: Applied and Interdisciplinary Mathematics (B.A.)

## Mathematics: Applied and Interdisciplinary Mathematics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

This concentration combines a major in applied mathematics with an approved minor that emphasizes the application of mathematics. Such minors include various disciplines in the physical, life, and earth sciences, the social sciences, and business. A student may expand the approved minor to form a double major with mathematics. The requirements for this option are: (a) [MATH 21](#), [MATH 22](#), [MATH 121](#), [CS 21](#), [MATH 124](#), [MATH 230](#), and [MATH 237](#); (b) at least nine additional hours in mathematics, statistics, or computer science courses number 100 or above, at least three of which must be in mathematics or statistics, at least six of which must be numbered 200 or above; (c) an approved minor. Parts (b) and (c) must form a coherent program that has the written approval of the student's faculty advisor in the Mathematics and Statistics Department.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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- Continuing

## Mathematics: Statistics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Computer Science 21. Thirty-three hours of Mathematics/Statistics courses numbered 21 or higher, including [MATH 121](#) and [MATH 124](#), and [STAT 141](#) or [STAT 143](#) or [STAT 211](#), [STAT 151](#) or [STAT 251](#), [STAT 201](#), [STAT 221](#) or [STAT 227](#), [STAT 241](#) or [STAT 261](#), and [STAT 281](#) or [STAT 293](#). At least 12 ours must be at the 200 level or higher.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Engineering and Mathematics](#).
- Departments and Programs:[Mathematics and Statistics Department](#).

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- College of Education and Social Services
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- Continuing

## Music (Bachelor of Arts)

### Overview

In the Bachelor of Arts program, music majors may choose from four concentrations: music history and literature, performance, theory and composition, and jazz studies.

All students interested in majoring in music must first pass an entrance audition on an instrument or voice. In order to complete the major, all students must attain intermediate level on a single instrument or voice; must have or acquire piano skills sufficient to pass the piano proficiency examination; and must pass a junior standing examination, usually at the end of the sophomore year, before being permitted to declare a concentration.

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Forty Credits in Music: Majors in all concentrations except jazz studies (see below) must take the following core courses: [MU 111](#), [MU 112](#) (history); [MU 053/MU 054](#), [MU 055/MU 056](#), [MU 153/MU 154](#), [MU 155/MU 156](#) (theory); and eight credits of performance study (two credits of ensembles plus six credits of lessons, excluding group piano lessons).

### Concentration in Music History and Literature

Six additional credits at 100-level or higher in music history and literature, three credits in a music concentration other than history and literature, and [MU 211](#). Additionally, students must attain intermediate level on an instrument chosen from the department's offerings.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

## Concentration in Performance

Six additional credits at the 100-level in performance study, three credits in a music concentration other than performance, and [MU 250](#). Additionally, students must appear each year in department recitals.

## Concentration in Theory and Composition

Six additional credits at the 100-level or higher in theory and composition, three credits in a music concentration other than theory and composition, and [MU 260](#). Additionally, students must attain intermediate level on an instrument chosen from the department's offerings.

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## Concentration in Jazz Studies

Concentrators must take [MU 111](#), [MU 112](#) (history); [MU 053/MU 054](#), [MU 055/MU 056](#) (theory); eight credits of performance study (two credits of ensembles plus six credits of lessons, excluding group piano lessons); [MU 024](#), [MU 025](#), [MU 105](#), [MU 159](#), [MU 257](#), [MU 259](#); and four additional credits at the 100-level in performance study and [MU 250](#). (At least two credits of performance study must be in the "classical" idiom.) Additionally, students must appear each year in department recitals.

## Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Music Department](#).

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## 2005-06 Online Catalogue

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- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Philosophy (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours including: (a) [PHIL 101](#) and [PHIL 102](#); (b) a total of at least four PHIL 200-level courses in Philosophy. Students considering graduate work are urged to take [PHIL 013](#) and to study a foreign language.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Philosophy Department](#).

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Physics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-two hours in Physics, including PHYS 031 with [PHYS 021](#), [PHYS 042](#) with [PHYS 022](#), [PHYS 128](#) with [PHYS 130](#), [PHYS 201](#) or [PHYS 202](#), [PHYS 211](#), [PHYS 213](#), [PHYS 273](#); mathematics through [MATH 121](#) and three hours of approved mathematics electives; Computer Science [CS 021](#). An additional laboratory science is strongly recommended.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Physics Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Political Science (B.A.)

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Political Science (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours in Political Science:

- Four (12 hours) core courses ([POLS 021](#), [POLS 041](#), [POLS 051](#), [POLS 071](#)).
- Eighteen hours at the advanced (POLS 100 or POLS 200) level, three hours of which must be at the POLS 200 level, subject to the following restrictions:
  - Students must complete at least one advanced (POLS 100 or POLS 200) course in three different subfields.
  - Of these 18 hours at the advanced (POLS 100 or POLS 200) level, students must complete at least 12 of those hours, including three hours at the POLS 200 level, in regular UVM political science courses (e.g., excluding study abroad, transfer credit, readings and research).

Note: Internships will not count toward the 30 hours required for the major.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Political Science Department](#).

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## 2005-06 Online Catalogue

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## Psychology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-four hours of psychology including:

- [PSYC 001](#), [PSYC 109](#) and [PSYC 110](#)
- five of the following: [PSYC 104](#), [PSYC 119](#), [PSYC 121](#), [PSYC 130](#), [PSYC 152](#), [PSYC 161](#);
- two of the following: [PSYC 205](#), [PSYC 206](#), [PSYC 207](#), [PSYC 220](#), [PSYC 221](#), [PSYC 222](#), [PSYC 223](#), [PSYC 230](#), [PSYC 231](#), [PSYC 233](#); [PSYC 236](#), [PSYC 237](#), [PSYC 239](#), [PSYC 240](#), [PSYC 241](#), [PSYC 250](#), [PSYC 251](#), [PSYC 252](#), [PSYC 253](#), [PSYC 254](#), [PSYC 255](#), [PSYC 257](#), [PSYC 259](#), [PSYC 261](#), [PSYC 262](#), [PSYC 263](#), [PSYC 265](#), [PSYC 266](#), [PSYC 268](#), [PSYC 269](#);
- one additional course at/above 100 level;

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Psychology Department](#).

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## Religion (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three hours in Religion, including [REL 100](#) and [REL 201](#); one course chosen from the REL 020-027 range; one course from the REL 101-109 range (comparative); one course from the REL 110-130 range (Biblical traditions); one course from the REL 130-149 range (Asian traditions); an additional course at the 200 level. [REL 130](#) may count for either the Biblical or Asian traditions requirement, but not for both. Three hours in related, non-departmental courses may count toward the thirty-three hour requirement. A list of approved courses is available from the Religion Department.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Religion Department](#).

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## Russian (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours of courses in Russian at the 100 level or above among which at least one course must be Russian literature in translation ([WLIT 118](#)); one additional course in English literature or world literature; one Russian history course; and two additional courses chosen from among the listings of the Russian and East European Area Studies Program. All course work to be chosen in consultation with the student's major advisor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[German and Russian Department](#).

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Russian/East European Studies (B.A.)

## Russian/East European Studies (Bachelor of Arts)

### Overview

- [Russian and East European Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

1. 30 hours of required courses to include the following: Two courses from [HST 027](#), [HST 137](#), [HST 138](#); [ECON 116](#); [POLS 172](#); [WLIT 118](#); two courses at the 100 level or above in Russian; three additional courses in the major, chosen in consultation with an advisor in the major.
2. Recommended courses: [AIS 091](#).

The program also offers an interdisciplinary Individual Design Major in Russian/East European Studies and Business. The program of study must be planned with a member of the Russian/East European Studies faculty.

*Required courses (35 hours):* Two courses in Russian at the intermediate level; four courses in Economics including 116; one Russian/East European Area Studies course other than those in Economics; two courses in Business Administration; two approved electives at the 100 level or above.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Area and International Studies Program](#).





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## Sociology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-four hours in Sociology including [SOC 001](#); [SOC 100](#) and [SOC 101](#); three hours in each of three different areas at the 100-level (total nine hours); and three hours in each of the three different areas at the 200 level (total nine hours). It is recommended that 1, 100, and 101 be completed before the start of the junior year. 1 and 100, or 1 and 101, or instructor's permission is a prerequisite for enrollment in any 200-level course. Students planning to focus in a particular area of study are strongly encouraged to take an additional 200-level course in that area. Students interested in completing the Social Gerontology concentration are encouraged to consult their faculty advisor early in their program. Students planning postgraduate training in Sociology or related areas are strongly encouraged to take at least two courses from the advanced Theory/Methods area ([SOC 274](#), [SOC 275](#), [SOC 279](#)). Areas and their approved courses are: Crime, Law, and Deviance: [SOC 115](#), [SOC 118](#), [SOC 214](#), [SOC 216](#), [SOC 217](#), [SOC 255](#), [SOC 258](#); Social Inequality: [SOC 119](#), [SOC 122](#), [SOC 132](#), [SOC 219](#), [SOC 232](#), [SOC 240](#), [SOC 254](#); Social Change and Development: [SOC 102](#), [SOC 103](#), [SOC 105](#), [SOC 171](#), [SOC 202](#), [SOC 203](#), [SOC 205](#), [SOC 206](#), [SOC 207](#), [SOC 211](#), [SOC 213](#), [SOC 272](#); Culture, Institutions, and the Individual: [SOC 109](#), [SOC 128](#), [SOC 145](#), [SOC 150](#), [SOC 151](#), [SOC 155](#), [SOC 161](#), [SOC 209](#), [SOC 225](#), [SOC 243](#), [SOC 250](#), [SOC 252](#), [SOC 255](#), [SOC 288](#), [SOC 289](#); The Life Course: [SOC 120](#), [SOC 128](#), [SOC 145](#), [SOC 154](#), [SOC 161](#), [SOC 222](#), [SOC 223](#), [SOC 229](#); Theory and Methods: [SOC 274](#), [SOC 275](#), [SOC 279](#).

The Department of Sociology offers an optional twelve-hour concentration in Social



- Education Gerontology including SOC 20 and SOC 120; either SOC 220 or SOC 222; and at least one course from [SOC 154](#), [SOC 254](#), or [SOC 255](#).
- Graduate College \*Courses numbered [SOC 195](#), [SOC 196](#), [SOC 281](#), [SOC 282](#), [SOC 295](#), or [SOC 296](#) may qualify to fulfill area requirements with approval of the student's advisor.
- Honors College

- School of Business Administration

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Sociology Department](#).

- The Rubenstein School of Environment and Natural Resources

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- College of Engineering and Mathematics
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- Continuing

## Spanish (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of thirty-three hours of courses numbered above SPAN 100\*, of which: twelve must be in literature and eighteen must be in courses numbered above 200\*. Required courses among those thirty-three hours: [SPAN 140](#); one 3-credit course in Latin-American literature ([SPAN 142](#), [SPAN 262](#), [SPAN 274](#), [SPAN 279](#), [SPAN 281](#), [SPAN 286](#), [SPAN 287](#) or Topics); one 3-credit course in Spanish Peninsular Literature ([SPAN 141](#), [SPAN 236](#), [SPAN 237](#), [SPAN 245](#), [SPAN 250](#), [SPAN 252](#), or Topics); one 3-credit course in culture and civilization ([SPAN 290](#), [SPAN 291](#), [SPAN 292](#), [SPAN 293](#), [SPAN 294](#) or [SPAN 299](#)). At least one of the literature courses taken must be a survey ([SPAN 141](#) or [SPAN 142](#)) and one must be devoted specifically to literature written before 1800 (Examples are [SPAN 236](#), [SPAN 237](#), [SPAN 245](#), [SPAN 287](#) or Topics on pre-1800 literature).

\*Only three credits of Readings and Research ([SPAN 197](#), [SPAN 198](#)) and Advanced Readings and Research ([SPAN 297](#), [SPAN 298](#)) may be counted toward the major.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Romance Languages Department](#).

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- Continuing

## Theatre (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A total of 48 hours to include [THE 010](#), [THE 020](#), [THE 030](#), [THE 040](#), [THE 050](#), [THE 110](#); one of the following three: [THE 120](#), [THE 130](#) or [THE 140](#); [THE 150](#), [THE 151](#), [THE 250](#), [THE 251](#); three hours in THE 190: Theatre Practicum; nine hours in selected area of emphasis: Design/Tech; or Performance; or History/Criticism. Design/Tech: [THE 041](#), [THE 042](#), [THE 120](#), [THE 130](#), [THE 131](#), [THE 140](#), [THE 141](#), [THE 142](#), [THE 143](#), [THE 144](#), [THE 160](#), [THE 200](#), [THE 230](#); Performance: [THE 111](#), [THE 112](#), [THE 200](#), [THE 210](#); History/Criticism: nine hours from [ENGS 135](#), [ENGS 136](#), [ENGS 165](#); [CLAS 153](#); [THE 200](#); or other courses by departmental permission.

Note: Students entering the College of Arts and Sciences should be advised that Theatre 001 is not recommended for students intending to major or minor in Theatre. Those students should enroll in required courses immediately. If Theatre 001 is taken, it will not be counted toward the required 48 hours for the major but will be counted toward the total 122 hours required for graduation.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Theatre Department](#).

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## 2005-06 Online Catalogue

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- Continuing

## Women's and Gender Studies (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A total of thirty-six hours (twelve courses) are required for the major.

- Core (twelve hours): Women's and Gender Studies - [WGST 73](#), [WGST 101](#), [WGST 273](#), and [WGST 191](#) or [WGST 192](#);
- Electives (nine hours): One additional race/ethnicity class beyond the A&S requirement, one additional non-European culture class beyond the A&S requirement and any one course in fine arts or humanities cross-listed with Women's and Gender Studies.
- Concentration (fifteen hours): An individually-designed concentration consisting of five approved Women's and Gender Studies electives, at least four of which are at or above the 100 level.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Women's and Gender Studies Program](#).

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- College of Medicine
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- Continuing

## Zoology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 031/CHEM 032](#) or [CHEM 035/CHEM 036](#), to be taken the first year if possible; [CHEM 141/CHEM 142](#); [MATH 019](#) (or higher), plus at least six additional credits in quantitative disciplines from among Mathematics ([MATH 020](#) or higher), Physics ([PHYS 011](#) or higher), or Statistics ([STAT 141](#) or higher). [BCOR 011/BCOR 012](#), (preferred, but [BIOL 001/BIOL 002](#) is accepted), [BCOR 101](#), and either [BCOR 102](#) or [BCOR 103](#), and at least fifteen additional credits in Biology from [BCOR 102](#) or [BCOR 103](#) (whichever was not taken above) or 200-level courses. Students preparing for entry into professional schools, such as veterinary or human medicine or dentistry, should consult with their department advisor to select the proper sequence of electives.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Biology Department](#).

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Music Performance (B.M.)

## Music Performance (Bachelor of Music)

### Overview

The Bachelor of Music program, with concentration in performance, is designed for talented students who wish to pursue a career in music as a performer. To earn the degree, students must demonstrate technical competence, and a broad knowledge of musical style and literature. Performance as a soloist and in ensembles is key. Admission is through audition at the end of the freshman year.

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Music](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Students must complete the degree requirements (40 credits) for the Bachelor of Arts with concentration in performance (see Music B.A.), and these additional 40 hours:

- Ensembles [14 credits]
- Applied lessons [4 credits]
- Secondary instrument or voice (four semesters of half-hour lessons) [4 credits]
- Sophomore Recital/Performance Seminar [1 credit]
- Junior Recital [1 credit]
- Senior Recital (in addition to the one hour credit given for [MU 250](#)) [1 credit]
- World Music [3 credits]
- Electronic Music [3 credits]
- Music electives (pedagogy courses strongly recommended) [9 credits]

### Affiliations

Education

- Colleges and Schools:[College of Arts and Sciences.](#)
- Departments and Programs:[Music Department.](#)

• Graduate College

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• Honors College

• School of Business  
Administration

• The Rubenstein  
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## Biochemistry (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Biochemistry core requires satisfactory completion of [BIOL 001/BIOL 002](#) or [BCOR 011/BCOR 012](#) (Introductory Biology); [MATH 021/MATH 022](#) (Calculus); [PHYS 031/PHYS 042](#) with [PHYS 021/PHYS 022](#) (Physics); [CHEM 035/CHEM 036](#) (Introductory Chemistry); [CHEM 143/CHEM 144](#) (Organic Chemistry); [CHEM 162](#) (Thermodynamics); [BIOC/CHEM/MMG 205](#) (Biochemistry I); [BIOC/CHEM/MMG 206](#) (Biochemistry II); [BIOC/CHEM/MMG 207](#) (Biochemistry Lab); [CHEM 221](#) (Instrumental Analysis); [CHEM 282](#) (Senior Thesis); [BCOR 101](#) (Genetics); [BCOR 103](#) (Cell Biology); and advanced biochemistry electives.

### Affiliations

- Colleges and Schools:[College of Agriculture and Life Sciences](#).[College of Arts and Sciences](#).
- Departments and Programs:[Biochemistry Program](#).

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- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Biological Science, Integrated (B.S.)

## Biological Science, Integrated (Bachelor of Science)

### Overview

Students can choose to pursue a Bachelor of Science in Biological Science through the College of Arts and Science (CAS) or through the College of Agriculture and Life Sciences (CALs). The courses that comprise the biological science major are identical for students in either college, but the colleges differ in their general distribution requirements. In CAS, students are required to fulfill distribution requirement by completing six courses from at least two of the following categories: foreign languages, fine arts, literature, humanities, social sciences, physical sciences and mathematics. In CALs, students are required to fulfill distribution requirements by completing seven courses including two in social science, two in humanities and fine arts, and courses in oral and written communication, and information technology. A course exploring race relations and ethnicity in the United States is also required by both colleges.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Integrated Biological Science B.S. core requires satisfactory completion of [BCOR 11/BCOR 12](#) - Exploring Biology, [BCOR 101](#) - Genetics, [BCOR 102](#) - Ecology and Evolution, [BCOR 103](#) - Molecular and Cell Biology; [CHEM 31/CHEM 32](#), [CHEM 141/CHEM 142](#); [PHYS 11/PHYS 12](#) or [PHYS 31/PHYS 42](#) (either sequence must include laboratory sections [PHYS 21](#) and [PHYS 22](#)); [MATH 19/MATH 20](#) or [MATH 21/MATH 22](#); [STAT 141](#) or [STAT 211](#).

- Education
  - Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources
- In consultation with their academic advisor, students will design a course of study that includes an additional 26 credit hours of advanced life-science electives. From the advanced-level electives, students must complete 12 credits from courses with a statistical component, 3 credits that stress oral communication and 3 credits that stress written communication. Consult the Integrated Biological Science advisors for a list of approved advanced courses including those that fulfill the statistical, oral and written communication requirements.
- Within the advanced-level elective courses students must complete a minimum of 18 credits at the 200-level and, excluding the BCOR courses, no more than 8 credits at the 100-level may be applied to the major. With advisor's permission, biologically relevant 300-level courses may be applied towards the 200-level course requirement.

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Up to 6 credits of undergraduate research in any biological disciplines may be applied toward the 26 credits of advanced electives, at least three of which must be taken at the 200-level.

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In year 2, all students are expected to meet with their advisor to map a plan of study for completing their higher-level courses. The plan will be signed by both the advisor and student and will become a part of the student's record.

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Students majoring in the B.S. program in Biological Science are required to take at least 84 credit hours of coursework in the College of Arts and Sciences. This does not apply to CALS students.

### Affiliations

- Colleges and Schools:[College of Agriculture and Life Sciences](#).[College of Arts and Sciences](#).
- Departments and Programs:[Biology Department](#).[Biological Science](#).

[\[Location\]](#)

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Chemistry (B.S.)

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Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Chemistry (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 035/CHEM 036](#) (or [CHEM 031/CHEM 032](#); or [CHEM 031/CHEM 036](#)), [CHEM 121](#), [CHEM 131](#), [CHEM 143](#), [CHEM 144](#) (or [CHEM 141/CHEM 142](#); or [CHEM 141/CHEM 144](#)), [CHEM 146](#), [CHEM 161](#), [CHEM 162](#), [CHEM 167](#) or [MATH 121](#), [CHEM 201](#), [CHEM 202](#), [CHEM 205](#), [CHEM 221](#), [CHEM 282](#); six hours of advanced chemistry-related course work, which must include 3 hours of [CHEM 291](#) or equivalent; [MATH 021/MATH 022](#); [PHYS 021](#), [PHYS 022](#), [PHYS 031](#), [PHYS 042](#).

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Chemistry Department](#).

[\[Location\]](#)



## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Environmental Sciences [CAS] (B.S.)

### Catalogue 2005-06

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Academic Offerings

Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Environmental Sciences [CAS] (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 042](#) or [CHEM 141\\*](#) or [CHEM 143\\*](#); [GEOL 055\\*\\*](#) or [PSS 161](#); [STAT 141](#) or [STAT 211](#) or [NR 140](#); [ENSC 001](#), [ENSC 101](#), [ENSC 130](#); [BCOR 102\\*\\*\\*](#) or [CHEM 142\\*\\*\\*\\*](#) (or [CHEM 144](#))\*\*\*\* or [GEOL 110\\*\\*](#); and 14-17 credits of advanced coursework, chosen in consultation with your advisor, in one of the following Focus Tracks: Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources. Up-to-date course requirements for each Focus Track are available from your advisor or the Dean's Office; students may elect to petition to develop a self-design track.

Also: [BCOR 011](#) and [BCOR 012](#); [CHEM 031](#) and [CHEM 032](#) (or [CHEM 035](#) and [CHEM 036](#)); [MATH 19](#) and [MATH 20](#) (or [MATH 21](#) and [MATH 22](#) ); [PHYS 011](#) and [PHYS 012](#) (or [PHYS 031](#) and [PHYS 042](#)) - Physics is required only for the Environmental Chemistry Focus Track.

College of Arts and Sciences students majoring in the B.S. program in Environmental Sciences are required to take at least 84 credit hours of coursework in the College of Arts and Sciences.

\*Required for Environmental Biology and Environmental Chemistry Focus Tracks.

\*\*Required for Environmental Geology Focus Track.

\*\*\*Required for Environmental Biology Focus Track.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

\*\*\*\*Required for Environmental Chemistry Focus Track.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Agriculture and Life Sciences](#).[The Rubenstein School of Environment and Natural Resources](#).
- Departments and Programs:[Biology Department](#).[Chemistry Department](#).[Geology Department](#).[Environmental Sciences Program](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Geology (B.S.)

### Catalogue 2005-06

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Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Geology (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

One introductory geology course ([GEOL 001](#), [GEOL 005](#), [GEOL 055](#)), [GEOL 062](#), [GEOL 101](#), [GEOL 110](#), [GEOL 260](#). At least three credits of field experience are required ([GEOL 197](#), [GEOL 198](#), [GEOL 201](#)), field camp or field-based thesis. Four geology courses at the 100-level or above. Two additional courses in geology or approved science, mathematics, engineering, or statistics courses at the 100-level or above selected in consultation with a geology advisor. [MATH 021/MATH 022](#) (or [MATH 019/MATH 020/MATH 022](#)); [CHEM 031/CHEM 032](#) (or [CHEM 035/CHEM 036](#)); [PHYS 031/PHYS 021](#), [PHYS 042/PHYS 022](#); [STAT 141](#).

Note: [GEOL 007](#) - Earth Hazards will not count for the major or minor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Geology Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Physics (B.S.)

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Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Physics (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

All courses in core and all courses in one of the listed options. Core: Physics [PHYS 031](#) with [PHYS 021](#), [PHYS 042](#) with [PHYS 022](#), [PHYS 128](#) with [PHYS 130](#), [PHYS 211](#), [PHYS 213](#), [PHYS 273](#); [PHYS 214](#) or [PHYS 274](#); Mathematics [MATH 021](#), [MATH 022](#), [MATH 121](#); [MATH 271](#) or [MATH 230](#); [MATH 124](#) or [MATH 272](#); Chemistry [CHEM 031](#) and [CHEM 032](#); Computer Science [CS 021](#) (C++).

Options:

- Pure Physics: Physics [PHYS 201](#), [PHYS 202](#), [PHYS 265](#), twelve hours of approved physics electives.
- Mechanical Engineering: [ME 012](#), [ME 014](#), [ME 040](#) with [ME 044](#), [ME 042](#), [ME 101](#), [ME 111](#), and [ME 143](#); [CE 001](#); [EE 100](#).
- Civil & Environmental Engineering: [CE 001](#), [CE 010](#), [CE 100](#), [CE 150](#), [CE 170](#) and [CE 173](#); [ME 012](#), [ME 040](#) with [ME 044](#); [EE 100](#).
- Electrical Engineering (Signals and Systems): [EE 003](#), [EE 004](#), [EE 081](#), [EE 082](#), [EE 120](#), [EE 121](#), [EE 171](#), [EE 174](#), [EE 275](#) and one course from [EE 276](#), [EE 277](#), [EE 295](#); recommended elective Statistics 270.
- Electrical Engineering (Circuits and Devices), [EE 003](#), [EE 004](#), [EE 081](#), [EE 082](#), [EE 120](#), [EE 121](#), [EE 131](#), [EE 163](#), [EE 183](#), [EE 184](#), [EE 221](#).

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

Education

- Departments and Programs: [Physics Department](#).

- Graduate College [\[Location\]](#)

- Honors College

- School of Business  
Administration

- The Rubenstein  
School of  
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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Psychology: Biobehavioral (B.S.)

### Catalogue 2005-06

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Academic Offerings

Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Psychology: Biobehavioral (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Forty-four hours of psychology including [PSYC 001](#), [PSYC 109](#), [PSYC 110](#), [PSYC 119](#), [PSYC 121](#), [PSYC 130](#), [PSYC 152](#), [PSYC 161](#), and upper division psychology courses as described below; [MATH 019](#), [MATH 020](#) or [MATH 021](#), [MATH 022](#); biology courses as indicated below; and at least three additional hours in an approved science or statistics.

For a list of approved offerings in science and statistics, contact the psychology department office. Students opting for a bachelor of science degree in psychology must also complete the College of Arts and Sciences distribution requirements for a B.S. degree and they may not use psychology courses to fulfill the social sciences category.

Students who are interested in behavioral neuroscience and related medical fields, including premedicine preparation, should select this concentration. Required courses include: Biology - [BIOL 001](#), [BIOL 002](#); three category A courses, one from each of the following subcategories (i) [PSYC 221](#) or [PSYC 222](#), (ii) [PSYC 205](#) or [PSYC 220](#), (iii) [PSYC 206](#) or [PSYC 223](#); and one course from [PSYC 207](#), [PSYC 208](#), [PSYC 215](#), [PSYC 230](#), [PSYC 231](#), [PSYC 233](#), [PSYC 234](#), [PSYC 236](#), [PSYC 237](#), [PSYC 239](#), [PSYC 240](#), [PSYC 241](#), [PSYC 250](#), [PSYC 251](#), [PSYC 252](#), [PSYC 253](#), [PSYC 254](#), [PSYC 255](#), [PSYC 257](#), [PSYC 259](#), [PSYC 261](#), [PSYC 262](#), [PSYC 263](#), [PSYC 265](#), [PSYC 266](#), [PSYC 268](#).

The remaining hours must be psychology courses at or above the PSYC 100 level. Independent research is encouraged and these hours may be counted towards the total 44 hours required. A science minor is strongly recommended.

### Affiliations

Education

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

- Colleges and Schools:[College of Arts and Sciences.](#)
- Departments and Programs:[Psychology Department.](#)

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Psychology: Traditional (B.S.)

### Catalogue 2005-06

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Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Psychology: Traditional (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Forty-four hours of psychology including [PSYC 001](#), [PSYC 109](#), [PSYC 110](#), [PSYC 119](#), [PSYC 121](#), [PSYC 130](#), [PSYC 152](#), [PSYC 161](#), and upper division psychology courses as described below; [MATH 019](#), [MATH 020](#) or [MATH 021](#), [MATH 022](#); biology courses as indicated below; and at least three additional hours in an approved science or statistics.

For a list of approved offerings in science and statistics, contact the psychology department office. Students opting for a bachelor of science degree in psychology must also complete the College of Arts and Sciences distribution requirements for a B.S. degree and they may not use psychology courses to fulfill the social sciences category.

This concentration is most appropriate for students wishing a broader training in psychology, often in preparation for graduate school. Required courses include: Biology - [BIOL 001](#), [BIOL 002](#); one course from each of the following categories A, B, and C: (A) [PSYC 205](#), [PSYC 206](#), [PSYC 207](#), [PSYC 208](#), [PSYC 215](#), [PSYC 220](#), [PSYC 221](#), [PSYC 222](#), [PSYC 223](#); (B) [PSYC 230](#), [PSYC 231](#), [PSYC 233](#), [PSYC 234](#), [PSYC 236](#), [PSYC 237](#), [PSYC 239](#), [PSYC 240](#), [PSYC 241](#), [PSYC 254\\*](#), [PSYC 257\\*](#), [PSYC 261](#), [PSYC 262](#), [PSYC 263\\*](#), [PSYC 265](#), [PSYC 266](#), [PSYC 268](#); (C) [PSYC 250](#), [PSYC 251](#), [PSYC 252](#), [PSYC 253](#), [PSYC 254\\*](#), [PSYC 255](#), [PSYC 257\\*](#), [PSYC 259](#), [PSYC 263\\*](#). The remaining hours must be psychology courses at or above the 100 level. Independent research is encouraged and these hours may be counted towards the total 44 hours required. A minor in mathematics, statistics, or biology is strongly recommended.

\*Category B or C, but not both.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

## Affiliations

- Colleges and Schools:[College of Arts and Sciences.](#)
- Departments and Programs:[Psychology Department.](#)

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Zoology (B.S.)

### Catalogue 2005-06

## Zoology (Bachelor of Science)

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### General Requirements

Courses

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

Academic Offerings

### Specific Requirements

Colleges and Schools

[CHEM 031/CHEM 032](#) or [CHEM 035/CHEM 036](#), to be taken the first year if possible; [CHEM 141/CHEM 142](#); [MATH 019](#) (or higher), and at least fifteen credits in quantitative disciplines from among Mathematics ([MATH 020](#) or higher), Physics ([PHYS 011](#) or higher), or Statistics (at least one course is required from [STAT 141](#) or higher). [BCOR 011/BCOR 012](#) (preferred, but [BIOL 001/BIOL 002](#) is accepted), [BCOR 101](#), and either [BCOR 102](#) or [BCOR 103](#), and at least twenty-seven additional credits in zoology or related fields from the approved list available from the Biology Department office or department advisors. Students preparing for entry into professional schools, such as veterinary or human medicine or dentistry, should consult with their department advisor to select the proper sequences of electives.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Biology Department](#).

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• College of  
Agriculture and Life  
Sciences

• College of Arts and  
Sciences

• College of  
Education and  
Social Services

• College of  
Engineering and  
Mathematics

• College of  
Medicine

• College of Nursing  
and Health  
Sciences

• Continuing

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > African Studies (Minor)

### Catalogue 2005-06

## African Studies (Undergraduate Minor)

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### Specific Requirements

Courses

A total of 18 credit hours (six courses), at least nine of which must be at the 100-level or above, and which must include the following:

Academic Offerings

#### A. Core Courses

(at least four from the following):

- [ANTH 162 - Cultures of Africa](#)
- [ENG 061 - Intro to African Literature](#)
- [GEOG 051 - Africa](#)
- [HST 040 - African History](#) to C-1870 or [HST 041 - Africa From C-1870 to Present](#)
- [POLS 177 - Pol Sys of Tropical Africa](#)

#### B. Secondary Courses

(two courses chosen from among the following):

- [AIS 093 - So Africa: Politic/Race&Culture](#)
- [ENG 173 - Topics Pan-African Literature](#)
- [FREN 289 - African Lit: French Expression](#)
- [GEOG 151 - Southern Africa](#)
- [HST 040 - African History](#) to C-1870 or [HST 041 - Africa From C-1870 to Present](#)

(where it does not count towards fulfilling the requirement listed in A)

- [HST 140 - W Africa: Holy War-Colonialism](#)
- [HST 141 - History of Southern Africa](#)
- [HST 142 - Nigeria: Giant of Africa](#)
- [HST 241 - Seminar in African History](#)
- [SOC 272 - Soc of African Societies](#)

Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Courses in category B may be replaced by any of the following courses provided that the

Education

student undertakes significant research or projects covering african material. Students may count these courses towards fulfillment of the minor requirement only with the approval of the director of African Studies. Such petitions will be decided on a case by case basis.

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

- [ANTH 023 - Anthropology Third World Dev](#)
- [ANTH 179 - Environmental Anthropology](#)
- [ANTH 181 - Law, War and Disorder](#)
- [ANTH 220 - Develop&Applied Anthropology](#)
- [ANTH 283 - Colonialism](#)
- [EDFS 206 - Comparative Education](#)
- [ENGS 177 - Topics in 20C Afr Am Lit & Cul](#)
- [ENGS 182 - Colonial/Post-Col World Lit](#)
- [GEOG 154 - Geography of Third World Dev](#)
- [GEOG 177 - Political Geography](#)
- [GEOG 179 - Cultural Ecology](#)
- [HST 240 - Comparative Slavery:Hist Persp](#)
- [POLS 071 - Comparative Political Systems](#)
- [POLS 277 - Comparative Ethno-Nationalism](#)
- [SOC 171 - Soc Chng&Dev Persp in 3rd Wrld](#)
- [SOC 213 - Women in Dev in 3rd World](#)
- Appropriate honors thesis

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### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Area and International Studies Program](#).

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > ALANA U.S. Ethnic Studies (Minor)

## ALANA U.S. Ethnic Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours (six courses) to include: [ALAN 051](#) and fifteen hours to be chosen from the list of ALANA approved courses (consult program [Web Site](#)  or office for list) of which at least nine must be at the 100-level or above. Students should consult with an ALANA U.S. Ethnic Studies program advisor in devising their course of study.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [ALANA U.S. Ethnic Studies Program](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Archaeology (Minor)

### Catalogue 2005-06

## Archaeology (Undergraduate Minor)

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### Specific Requirements

Courses

This minor is only available to students pursuing degree programs offered by the College of Arts and Sciences.

Academic Offerings

[ANTH 024](#); [ANTH 210](#); three from the following: [ANTH 160](#), [ANTH 161](#), [ANTH 188](#), [ANTH 200](#), [ANTH 250](#).

Colleges and Schools

### Affiliations

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Anthropology Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Art History (Minor)

### Catalogue 2005-06

## Art History (Undergraduate Minor)

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### Specific Requirements

Courses

Eighteen credits, including six credits from [ART 005](#), [ART 006](#), and [ART 008](#); 12 credits of 100-level courses or above.

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Art Department](#).

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• College of  
Agriculture and Life  
Sciences

• College of Arts and  
Sciences

• College of  
Education and  
Social Services

• College of  
Engineering and  
Mathematics

• College of  
Medicine

• College of Nursing  
and Health  
Sciences

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Art: Studio Art (Minor)

## Art: Studio Art (Undergraduate Minor)

### Specific Requirements

This minor is available only to students pursuing degree programs offered by the College of Arts and Sciences.

Eighteen credits, including six credits at introductory level of which at least three credits must be in [ART 001](#), [ART 002](#), [ART 003](#), or [ART 004](#). Twelve credits at the 100-level or above.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Art Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Asian Studies (Minor)

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Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Asian Studies (Undergraduate Minor)

### Specific Requirements

In selecting courses from the Asian Studies listing, students must consult with an appropriate Asian Studies advisor and demonstrate in their choices thematic and/or geographic coherence. Such courses must also accord with the following requirements:

Eighteen hours in courses from the Asian Studies listing (see Courses of Instruction; Asian Studies) including at least two courses in an Asian language, and at least one course in each of two other academic disciplines. At least eight credit hours must be at the 100 level or above. For students who have demonstrated fluency in an Asian language relevant to the other courses they have chosen for their minor concentration (for instance, native speakers of the language) the language requirement will be waived, and courses from a third academic discipline will be substituted.

### Affiliations

- Colleges and Schools: College of Arts and Sciences.
- Departments and Programs: Area and International Studies Program.

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## 2005-06 Online Catalogue

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- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Biology (Minor)

## Biology (Undergraduate Minor)

### Specific Requirements

BCOR 011/BCOR 012 or BIOL 001/BIOL 002; three courses at the 100-level or higher chosen from courses acceptable for the biology major, at least one of which must include a laboratory. One course may be taken from the advanced offerings of other biologically-oriented departments. Consult the biology department for a list of approved courses.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
- Departments and Programs:Biology Department.

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Botany (Minor)

### Catalogue 2005-06

## Botany (Undergraduate Minor)

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### Specific Requirements

Courses

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Botany Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

Academic Offerings

At least 15 hours of course work to include [BOT 004](#) or [BIOL 001](#) or [BIOL 002](#); plus three additional courses in botany, at least one at the 200-level.

Colleges and Schools

### Affiliations

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

- Colleges and Schools:[College of Agriculture and Life Sciences](#).[College of Arts and Sciences](#).
- Departments and Programs:[Botany Department](#).

[\[Location\]](#)

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Canadian Studies (Minor)

### Catalogue 2005-06

## Canadian Studies (Undergraduate Minor)

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### Specific Requirements

Courses

Eighteen hours to include International Studies 91 or History 66 (History 65 upon approval of advisor), and 15 hours to be chosen from the Canadian content list (see major listing for approved courses) of which at least 12 hours must be at the 100 level or above. Students will fulfill the language requirement with French.

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Area and International Studies Program](#).

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- College of Agriculture and Life Sciences

- College of Arts and Sciences

- College of Education and Social Services

- College of Engineering and Mathematics

- College of Medicine

- College of Nursing and Health Sciences

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Chemistry (Minor)

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- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Chemistry (Undergraduate Minor)

### Specific Requirements

CHEM 031/CHEM 032 or CHEM 035/CHEM 036 and one of the two following sequences:

- CHEM 141/CHEM 142 (\*) and one of the following: CHEM 121, CHEM 131, CHEM 160, CHEM 161, CHEM 162, CHEM 221 (with instructor permission).
- CHEM 161, CHEM 162, and one of the following: CHEM 042, CHEM 141.

(\*) CHEM 143/CHEM 144 can be used in place of CHEM 141/CHEM 142.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
- Departments and Programs:Chemistry Department.

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Chinese (Minor)

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- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Chinese (Undergraduate Minor)

### Specific Requirements

Fifteen credits of Chinese with at least eight of those credits at the 100-level, including CHIN 102 or its equivalent. Three credits at or above the 100-level in Chinese linguistics or literature may be substituted for three credits of language study beyond CHIN 102 or its equivalent.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
- Departments and Programs:Chinese Language Program.

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- College of  
Education and  
Social Services
- College of  
Engineering and  
Mathematics
- College of  
Medicine
- College of Nursing  
and Health  
Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Classical Civilization (Minor)

## Classical Civilization (Undergraduate Minor)

### Specific Requirements

Eighteen hours from the following (of which at least nine hours must be above 100): all courses in Greek and Latin above 50-level; all courses in Classics; [ART 146](#), [ART 148](#), [ART 149](#); and all special topic courses (95, 96, 195, 295, 296) in Classics, Latin or Greek. All Classical Civilization minors must fulfill the College foreign language requirement, preferably in Greek or Latin.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Classics Department](#).

[\[Location\]](#)



## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Communication Sciences (Minor)

### Catalogue 2005-06

## Communication Sciences (Undergraduate Minor)

Table of Contents

### Specific Requirements

Courses

[CMSI 80](#), [90](#), [94](#), [101](#), [164](#), [208](#).

Academic Offerings

### Affiliations

Colleges and Schools

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- Departments and Programs:[Communication Sciences Department](#).

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Computer Science (Minor)

## Computer Science (Undergraduate Minor)

### Specific Requirements

A Computer Science Minor consists of 18 credits in computer science to include [CS 100](#) or [CS 103](#), [CS 104](#), and three additional credits at the 100 level or above. Some Computer Science courses require additional prerequisites.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Engineering and Mathematics](#).
- Departments and Programs:[Computer Science Department](#).

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Economics (Minor)

## Economics (Undergraduate Minor)

### Specific Requirements

Eighteen credits including [EC 011](#), [EC 012](#); and four courses from EC 20-196, three of which must be from EC 110-196.

Minors are not required to take [MATH 019](#), although they will need to if they wish to take [EC 170](#), [EC 171](#) or [EC 172](#).

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Economics Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > English (Minor)

### Catalogue 2005-06

## English (Undergraduate Minor)

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### Specific Requirements

Courses

Available only to students majoring in a program in the College of Arts and Sciences.

Academic Offerings

Eighteen credits including six credits taken from one of the following sequences: [ENGS 021/ENGS 022](#), [ENGS 023/ENGS 024](#), [ENGS 025/ENGS 026](#), [ENGS 027/ENGS 028](#), or [ENGS 085/ENGS 086](#); and a minimum of nine credits at the 100-level or above.

Colleges and Schools

### Affiliations

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[English Department](#).

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Environmental Sciences: Biology (Minor)

## Environmental Sciences: Biology (Undergraduate Minor)

### Specific Requirements

[BIOL 001/BIOL 002](#) or [BCOR 011/BCOR 012](#); [BCOR 102](#), and two additional upper-division non-biology courses chosen in consultation with co-advisor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Biology Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Environmental Sciences: Chemistry (Minor)

### Catalogue 2005-06

## Environmental Sciences: Chemistry (Undergraduate Minor)

Table of Contents

### Specific Requirements

Courses

CHEM 031/CHEM 032; CHEM 121 or CHEM 042; and two additional upper-division non-chemistry courses chosen in consultation with minor advisor.

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools:College of Arts and Sciences.
- Departments and Programs:Chemistry Department.

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• College of Arts and  
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• College of  
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• College of  
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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Environmental Sciences: Geology (Minor)

## Environmental Sciences: Geology (Undergraduate Minor)

### Specific Requirements

[GEOL 055](#), [GEOL 101](#), [GEOL 155](#), and two additional upper-division non-geology courses chosen in consultation with minor advisor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Geology Department](#).

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Environmental Studies [CAS] (Minor)

## Environmental Studies [CAS] (Undergraduate Minor)

### Specific Requirements

Seventeen credits in Environmental Studies consisting of [ENVS 001](#), [ENVS 002](#), and nine credits at the 100-level or above, including three credits at the 200-level. (Of the nine credits, one non-ENVS course at the appropriate level may be substituted with the approval of the student's advisor and the Environmental Program.)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Agriculture and Life Sciences](#), [The Rubenstein School of Environment and Natural Resources](#).
- Departments and Programs: [Environmental Program](#).

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > European Studies (Minor)

## European Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours to include three hours at the 200 level from both European culture and thought and European history and society areas; and six hours at the 100 level or above from the European language area.

Note: See the [European Studies major](#) requirements for list of approved courses.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Area and International Studies Program](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Film and Television Studies (Minor)

### Catalogue 2005-06

## Film and Television Studies (Undergraduate Minor)

Table of Contents

### Specific Requirements

Courses

Available only to students majoring in a program in the College of Arts and Sciences.

Academic Offerings

Eighteen hours, including (a) at least one from [FTS 007](#), [FTS 008](#) or [FTS 009](#); (b) [FTS 121](#), [FTS 122](#), and [FTS 123](#); (c) six hours chosen from any other FTS offerings; [ART 4](#), [ART 139](#), [ART 140](#), [ART 143](#); Italian 122; [SOC 043](#), [SOC 150](#), [SOC 243](#); [SPAN 290](#) or additional courses approved by the Director of Film and Television Studies. (Students should consult the FTS course brochure and the Registrar's web page each semester for details about available courses.)

Colleges and Schools

### Affiliations

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[English Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > French (Minor)

### Catalogue 2005-06

## French (Undergraduate Minor)

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### Specific Requirements

Courses

Eighteen hours in French numbered FREN 100 or above. Required courses: [FREN 101](#); and three of the following four: [FREN 104](#), [FREN 105](#), [FREN 111](#), [FREN 112](#). Six of the 18 credits must be in courses at the 200-level. Readings and Research ([FREN 197](#), [FREN 198](#)) or Advanced Readings and Research ([FREN 297](#), [FREN 298](#)) may not be counted toward a minor.

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Romance Languages Department](#).

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- College of Agriculture and Life Sciences

- College of Arts and Sciences

- College of Education and Social Services

- College of Engineering and Mathematics

- College of Medicine

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Geography (Minor)

### Catalogue 2005-06

## Geography (Undergraduate Minor)

Table of Contents

### Specific Requirements

Courses

Five courses (fifteen credits) which must include: one course from this array: [GEOG 001](#), [GEOG 002](#), [GEOG 043](#), [GEOG 060](#), [GEOG 073](#), [GEOG 081](#); any one regional course (from [GEOG 051](#), [GEOG 052](#), [GEOG 055](#), [GEOG 056](#), [GEOG 057](#), [GEOG 090](#), [GEOG 092](#), [GEOG 151](#), [GEOG 154](#), [GEOG 155](#), [GEOG 162](#), [GEOG 190](#), or [GEOG 192](#)); any three courses at the 100-level or above.

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Geography Department](#).

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- College of Agriculture and Life Sciences

- College of Arts and Sciences

- College of Education and Social Services

- College of Engineering and Mathematics

- College of Medicine

- College of Nursing and Health Sciences

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Geology (Minor)

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Geology (Undergraduate Minor)

### Specific Requirements

One Geology course from [GEOL 001](#), [GEOL 005](#), or [GEOL 055](#); [GEOL 101](#); [GEOL 110](#); plus six additional hours at the 100-level or above.

Note: [GEOL 007](#) - Earth Hazards will not count for the major or minor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Geology Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > German (Minor)

### Catalogue 2005-06

## German (Undergraduate Minor)

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### Specific Requirements

Courses

Five courses at the GERM 100 or GERM 200 level, one of which must be [GERM 155](#) or [GERM 156](#).

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[German and Russian Department](#).

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• College of Arts and  
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• College of  
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• College of  
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• College of  
Medicine

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Gerontology (Minor)

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Gerontology (Undergraduate Minor)

### Specific Requirements

The minor in Gerontology consists of 18 credits. Required courses (12 credits): [SOC 020](#) (or [HDFS 020](#) or [NURS 020](#)), [SOC 120](#), [SOC 220](#), [SOC 222](#). Electives (six credits): [ANTH 189](#); [HDFS 266](#), [HDFS 283](#); [NURS 100](#); [SOC 154](#), [SOC 254](#).

Courses used to meet the requirements of the minor should constitute a coherent program and will be selected in consultation with the student's minor advisor. A list of current course offerings suitable for the minor, including special topics courses in individual departments, is available from the department of sociology or the Center for the Study of Aging.

Note: This minor cannot be the sole minor for sociology majors but is acceptable as a second minor, especially for students interested in careers involving work with the aged. Sociology majors who intend to complete a second minor in Gerontology should plan their course of study in close consultation with their advisor so as not to exceed the 45-hour rule and the limit of one course counting toward both a major and a minor.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Sociology Department](#).

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- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Greek Language and Literature (Minor)

## Greek Language and Literature (Undergraduate Minor)

### Specific Requirements

Fifteen hours of Greek at 51 or above, to which three hours from the following are applicable: Classics 121, 153, 154, 155, 156, 157, 158.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Classics Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > History (Minor)

### Catalogue 2005-06

## History (Undergraduate Minor)

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### Specific Requirements

Courses

Eighteen hours of history including three hours in any course at the introductory level (00), plus nine hours at the intermediate level (100) or advanced level (200). These must also include six hours in each of two of the department's areas of study (Western Hemisphere; Europe; Africa/Asia/Latin America).

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[History Department](#).

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- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
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## 2005-06 Online Catalogue

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Holocaust Studies (Minor)

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Holocaust Studies (Undergraduate Minor)

### Specific Requirements

18 hours of relevant course work, at least 9 of which must be at the 100 level or above, and must include [HST 139](#) and [HST 190](#). No more than three hours may come from classes also used to fulfill a major.

### Prerequisites

[HST 26](#), 2 semesters of German (another European language may be substituted after consultation with the director).

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Holocaust Studies Program](#).

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- College of Nursing and Health Sciences
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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Individual Design (Minor)

## Individual Design (Undergraduate Minor)

### Specific Requirements

The ID Minor must consist of at least 18 hours of course work, of which at least nine hours must be at the 100 level or above. No more than nine hours completed prior to application for the ID Minor may be applied to the 18 hours required for the proposed minor. No courses in the student's Arts and Sciences major department may be applied to the 18 hours required for the minor. An application must be submitted to the Committee on Honors and Individual Studies for approval. Applications may be found in the Dean's Office, College of Arts and Sciences.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Italian (Minor)

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Italian (Undergraduate Minor)

### Specific Requirements

Eighteen hours in courses taught in the Italian language and numbered ITAL 100 or above. Readings and Research ([ITAL 197](#), [ITAL 198](#)) or Advanced Readings and Research ([ITAL 297](#), [ITAL 298](#)) may not be counted toward a minor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Romance Languages Department](#).

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Italian Studies (Undergraduate Minor)

### Specific Requirements

Eighteen credit hours from the following categories:

- Courses in Italian: at least 6 credits in courses taught in Italian at the 100-level or above;
- Significant Italian content: up to 12 credits from among the courses listed under Category B in the description of the Italian Studies Major;
- Partial Italian content: up to 3 credits from among the courses listed under Category C in the description of the Italian Studies Major. Among the courses taught in English, no more than 6 credits may be applied from any one academic discipline.

### Affiliations

- Colleges and Schools: College of Arts and Sciences.
- Departments and Programs: Romance Languages Department.

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Japanese (Minor)

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- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Japanese (Undergraduate Minor)

### Specific Requirements

Fifteen credits of Japanese with at least eight of those credits at 100-level, including [JAPN 102](#) or its equivalent. Three credit hours at or above 100-level in Japanese linguistics or literature may be substituted for three credits of language study beyond [JAPN 102](#) or its equivalent.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Japanese Language Program](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Latin American Studies (Minor)

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## Latin American Studies (Undergraduate Minor)

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### Specific Requirements

Courses

A. Students who are not Spanish majors: 18 hours (six courses)

Academic Offerings

1. Completion of Spanish 52 or above (three hours).

2. Completion of five of the following courses: Anthropology 161; History 62 or 63, 161, 163, 164 or 262; Geography 56; Political Science 174; Spanish 142, 279, 281, 286, 287, 293, or 294; International Studies 195 or 196.

Colleges and Schools

B. Students who are Spanish majors: 18 hours (six courses)

- College of Agriculture and Life Sciences

1. Completion of one of the following courses: Spanish 279, 281, 286, 287, 293, or 294.

- College of Arts and Sciences

2. Completion of five of the following courses: Anthropology 161; History 62 or 63, 161, 163, 164 or 262; Geography 56; Political Science 174; International Studies 195 or 196.

- College of Education and Social Services

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Area and International Studies Program](#).

- College of Engineering and Mathematics

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- College of Medicine

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Latin Language and Literature (Minor)

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- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Latin Language and Literature (Undergraduate Minor)

### Specific Requirements

Fifteen hours of Latin at 51 or above, to which three hours from the following are applicable: Classics 122, 153, 154, 155, 156, 158, 159.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Classics Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Linguistic Anthropology (Minor)

### Catalogue 2005-06

## Linguistic Anthropology (Undergraduate Minor)

Table of Contents

### Specific Requirements

Courses

Fifteen credits to include [ANTH 028](#); [ANTH 176](#) or [ANTH 178](#); [ANTH 276](#) or [ANTH 284](#) or [PSYC 237](#); and two of the following: [CMSI 160](#), [CMSI 162](#), and any course in Anthropology at the 100-level or above.

Academic Offerings

### Affiliations

Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
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- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Anthropology Department](#).

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Mathematics: Applied (Minor)

## Mathematics: Applied (Undergraduate Minor)

### Specific Requirements

Fifteen hours of mathematics courses numbered MATH 52 or higher, including one of [MATH 230](#), [MATH 237](#), or [MATH 271](#).

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Mathematics: Pure (Minor)

## Mathematics: Pure (Undergraduate Minor)

### Specific Requirements

Math 21 (or equivalent), [MATH 22](#), [MATH 52](#) or [MATH 121](#), and nine additional credits in Mathematics courses numbered 100 or above. Computer Science or Computer Engineering majors may substitute MATH 54 for [MATH 52](#). The course plan for a mathematics minor must be approved by a mathematics faculty advisor.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#). [College of Engineering and Mathematics](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Middle East Studies (Minor)

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
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## Middle East Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours (six courses) to include: Completion of the College language distribution option or the transfer of equivalent credits. Familiarity with an appropriate Middle East language, e.g. Hebrew, Arabic, Turkish, Farsi, etc., is strongly recommended; History 45; four courses taken from the following groupings, but no more than one course from Group B and no more than one course below the 100 level:

- Group A: Anthropology 166, 170; Art 146, 188; [EC 180](#); [GEOG 158](#); [HST 123](#), [HST 146](#), [HST 149](#); [REL 114](#), [REL 116](#); [POLS 157](#), [POLS 259](#), [POLS 279](#) (when the topic is Middle East).
- Group B: [ENGL 172](#); [GEOG 51](#); [HST 40](#), [HST 140](#); [MATH 161](#).

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Area and International Studies Program](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Music (Minor)

### Catalogue 2005-06

## Music (Undergraduate Minor)

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### Specific Requirements

Courses

Eighteen hours including six in Music History, six in Theory and six in Private Lessons and/or Ensembles. Eight hours must be at the 100 level above.

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Music Department](#).

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- College of Agriculture and Life Sciences

- College of Arts and Sciences

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Philosophy (Minor)

## Philosophy (Undergraduate Minor)

### Specific Requirements

One course from [PHIL 101](#), [PHIL 102](#), [PHIL 140](#); one 200-level course in Philosophy; and 12 additional hours in Philosophy, at least three of which must be at the 100-level or above.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Philosophy Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Physics (Minor)

### Catalogue 2005-06

## Physics (Undergraduate Minor)

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### Specific Requirements

Courses

Seventeen hours including PHYS 031 with [PHYS 021](#), [PHYS 042](#) with [PHYS 022](#), [PHYS 128](#) with [PHYS 130](#), and three additional hours at the PHYS 200 level excluding [PHYS 201](#) and [PHYS 202](#). Note: Mathematics through 121 is needed for 128.

Academic Offerings

### Affiliations

Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
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- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Physics Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Political Science (Minor)

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Political Science (Undergraduate Minor)

### Specific Requirements

Eighteen hours in political science, including nine hours from the "core" courses ([POLS 021](#), [POLS 041](#), [POLS 051](#), [POLS 071](#)), and nine hours at the level of POLS 100 or above. Of the nine hours at the POLS 100 level or above, students must complete at least six hours in regular UVM political science courses (e.g., excluding study abroad, transfer credit, readings and research). Internships will not count toward the eighteen hours required for the minor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Political Science Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Psychology (Minor)

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## Psychology (Undergraduate Minor)

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### Specific Requirements

Courses

This minor is not available to students pursuing degree programs not offered by the College of Arts and Sciences.

Academic Offerings

Eighteen hours including: (1) [PSYC 001](#) and , [PSYC 109\\*](#); (2) three of the following: [PSYC 104](#), [PSYC 119](#), [PSYC 121](#), [PSYC 130](#), [PSYC 152](#), [PSYC 161](#); (3) one of the following: [PSYC 205](#), [PSYC 206](#), [PSYC 207](#), [PSYC 220](#), [PSYC 221](#), [PSYC 222](#), [PSYC 223](#), [PSYC 230](#), [PSYC 231](#), [PSYC 233](#), [PSYC 236](#), [PSYC 237](#), [PSYC 239](#), [PSYC 240](#), [PSYC 241](#), [PSYC 250](#), [PSYC 251](#), [PSYC 252](#), [PSYC 253](#), [PSYC 254](#), [PSYC 255](#), [PSYC 257](#), [PSYC 259](#), [PSYC 263](#), [PSYC 261](#), [PSYC 262](#), [PSYC 263](#), [PSYC 265](#), [PSYC 266](#), [PSYC 268](#), [PSYC 269](#). \*

Colleges and Schools

\*Students earning the minor may instead complete Sociology 100.

### Affiliations

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
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- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Psychology Department](#).

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Religion (Minor)

## Religion (Undergraduate Minor)

### Specific Requirements

Eighteen hours in Religion including: one introductory course from the REL 020-027 range; [REL 100](#); one course from REL 101-109 range; one intermediate level course on a particular religious tradition (from REL 110-149); one course at the REL 200 level; an additional Religion course.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Religion Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Russian (Minor)

### Catalogue 2005-06

## Russian (Undergraduate Minor)

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### Specific Requirements

Courses

[RUSS 051](#), [RUSS 052](#); four courses in Russian at the RUSS 100 or RUSS 200 level.

Academic Offerings

### Affiliations

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- Departments and Programs:[German and Russian Department](#).

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• College of Arts and  
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• College of  
Education and  
Social Services

• College of  
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- College of Medicine
- College of Nursing and Health Sciences
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[Colleges and Schools](#) > [College of Arts and Sciences](#) > [Academic Offerings](#) > [Russian/East European Studies \(Minor\)](#)

## Russian/East European Studies (Undergraduate Minor)

### Specific Requirements

Twenty hours to include: Russian 51, 52 or its equivalent and four courses from the following: Economics 116; World Literature 118; History 27, 137, 138; Political Science 172.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Area and International Studies Program](#).

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## 2005-06 Online Catalogue

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Colleges and Schools > College of Arts and Sciences > Academic Offerings > Social Anthropology (Minor)

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
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## Social Anthropology (Undergraduate Minor)

### Specific Requirements

ANTH 021; two topical courses plus one "peoples" course, or one topical and two "peoples" courses; and any 200-level course, except ANTH 200, ANTH 210, ANTH 297, ANTH 298. Nine credits must be at the 100-level or above.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
- Departments and Programs:Anthropology Department.

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Sociology (Minor)

## Sociology (Undergraduate Minor)

### Specific Requirements

Eighteen hours in sociology including [SOC 001](#); either [SOC 100](#) or [SOC 101](#); three hours in each of two different areas at the 100-level (total six hours); three hours at the 200-level (total three hours). (See Sociology major requirements for list of approved area options.) It is recommended that [SOC 001](#) and [SOC 100](#) or [SOC 001](#) and [SOC 101](#) be completed before the start of the junior year, [SOC 1](#) and [SOC 100](#), or [SOC 001](#) and [SOC 101](#), or instructor's permission, is a prerequisite for enrollment in any 200-level course.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Sociology Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Spanish (Minor)

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
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## Spanish (Undergraduate Minor)

### Specific Requirements

Eighteen hours in Spanish above SPAN 100, including: Language: six credits from [SPAN 101](#), [SPAN 201](#), [SPAN 202](#); Literature: six credits (3 of those credits must be in [SPAN 140](#)); Electives: six additional credits from courses numbered above [SPAN 202](#). Readings and Research ([SPAN 197](#), [SPAN 198](#)) or Advanced Readings and Research ([SPAN 297](#), [SPAN 298](#)) may not be counted toward a minor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Romance Languages Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Speech (Minor)

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## Speech (Undergraduate Minor)

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### Specific Requirements

Courses

Eighteen hours to include 12 hours from Speech [SPCH 011](#), [SPCH 111](#), [SPCH 112](#), [SPCH 283-4](#) or Theatre [THE 005](#); and six hours from Speech [SPCH 214](#) or [SPCH 283-4](#), or Sociology [SOC 141](#).

Academic Offerings

### Affiliations

Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
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- Departments and Programs:[Theatre Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Statistics (Minor)

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## Statistics (Undergraduate Minor)

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### Specific Requirements

Courses

A Statistics Minor consists of 15 credits of statistics (STAT) courses, acquiring calculus knowledge equivalent to [MATH 019](#) or [MATH 021](#), and gaining computer experience equivalent to [STAT 201](#) or a computer programming course ([CS 016](#) or higher or [MATH 052](#)). [EC 170](#): Economic Methods can also be counted in place of [STAT 111](#) or [STAT 140](#) as an introductory statistics course. Not more than seven credits of introductory Statistics [STAT 011/STAT 051/STAT 111/STAT 140/STAT 141/STAT 143/STAT 211](#) or [EC 170](#) may be counted. The course plan for the Statistics Minor must be approved by a Statistics faculty advisor. See more complete guidelines at [Statistics Minor Web site](#) .

Academic Offerings

Note that Mathematics majors can minor in Statistics as well. In Arts and Sciences you must earn 12 of your 15 credits in statistics beyond any statistics courses counted in your major courses. In Engineering and Mathematics you must earn 15 credits in statistics beyond any statistics courses.

Colleges and Schools

### Affiliations

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
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- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Theatre (Minor)

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## Theatre (Undergraduate Minor)

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### Specific Requirements

Courses

Theatre [THE 050](#), [THE 150](#); two courses from [THE 010](#), [THE 020](#), [THE 030](#), [THE 040](#); two additional 3 credit courses above level 100.

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Theatre Department](#).

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• College of Arts and  
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• College of  
Education and  
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• College of  
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• College of  
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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Vermont Studies (Minor)

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- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Vermont Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours (at least five courses), of which at least nine hours must be at the 100 level or above. As an interdisciplinary minor, it must include at least fifteen hours from departments outside the major. Completion of Vermont Studies [VS 52](#), three of the following VS courses: [VS 55](#), [VS 64](#), [VS 92](#) or [VS 192](#), [VS 123](#), [VS 160](#), [VS 184](#), and two additional courses from an approved list chosen in consultation with the Vermont Studies advisor.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Vermont Studies Program](#).

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Women's and Gender Studies (Minor)

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## Women's and Gender Studies (Undergraduate Minor)

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### Specific Requirements

Courses

Eighteen hours of course work to include [WGST 73](#), [WGST 273](#) and six hours at the 100 level or above to be chosen with the approval of the Women's and Gender Studies Committee or the consent of a Women's and Gender Studies advisor. Students may take a maximum of nine hours in any one discipline toward the minor. Not all sections of a multisection course will necessarily meet Women's and Gender Studies approval for the minor. (Students should consult the course listings each semester for further details.)

Academic Offerings

### Affiliations

Colleges and Schools

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [Women's and Gender Studies Program](#).

- College of Agriculture and Life Sciences

- College of Arts and Sciences

- College of Education and Social Services

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## 2005-06 Online Catalogue

### Academics

Colleges and Schools > College of Arts and Sciences > Academic Offerings > Zoology (Minor)

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## Zoology (Undergraduate Minor)

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### Specific Requirements

Courses

BCOR 011/BCOR 012 or BIOL 001/BIOL 002; three courses at the 100-level or above, chosen from courses within the biology department, at least one of which must include a laboratory.

Academic Offerings

### Affiliations

Colleges and Schools

- College of Agriculture and Life Sciences
- College of Arts and Sciences
- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
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- Colleges and Schools:College of Arts and Sciences.
- Departments and Programs:Biology Department.

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Colleges and Schools > College of Arts and Sciences > Departments and Programs

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- [Anthropology Department](#)
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- [English Department](#)
- [Environmental Program](#)
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- [Geography Department](#)
- [Geology Department](#)
- [German and Russian Department](#)
- [History Department](#)
- [Holocaust Studies Program](#)
- [Japanese Language Program](#)
- [Mathematics and Statistics Department](#)
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- [Physics Department](#)
- [Political Science Department](#)
- [Psychology Department](#)



Education

- Graduate College
- Honors College
- School of Business Administration

- [Religion Department](#)
- [Romance Languages Department](#)
- [Sociology Department](#)
- [Theatre Department](#)
- [Vermont Studies Program](#)
- [Women's and Gender Studies Program](#)

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- The Rubenstein School of Environment and Natural Resources

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- College of Nursing and Health Sciences
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Colleges and Schools > College of Arts and Sciences > Departments and Programs > ALANA U.S. Ethnic Studies Program

## ALANA U.S. Ethnic Studies Program

### Contact Information

University of Vermont  
 ALANA U.S. Ethnic Studies Program  
 A504 Old Mill Annex  
 94 University Place  
 Burlington, VT 05405-0114

Phone: (802) 656-2263  
 Fax: (802) 656-8653  
 Email: [Stella.Moyser@uvm.edu](mailto:Stella.Moyser@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## ALANA U.S. Ethnic Studies Program: Academic Offerings

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > ALANA U.S. Ethnic Studies Program > Academic Offerings > ALANA U.S. Ethnic Studies (Minor)

## ALANA U.S. Ethnic Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours (six courses) to include: [ALAN 051](#) and fifteen hours to be chosen from the list of ALANA approved courses (consult program [Web Site](#)  or office for list) of which at least nine must be at the 100-level or above. Students should consult with an ALANA U.S. Ethnic Studies program advisor in devising their course of study.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
- Departments and Programs: [ALANA U.S. Ethnic Studies Program](#).

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > ALANA U.S. Ethnic Studies Program > Courses

## Courses offered by the ALANA U.S. Ethnic Studies Program

### Courses in ALANA U.S. Ethnic Studies

#### ALAN 051 - Intr to ALANA US Ethnic Studies

Survey of the experience of ALANA peoples in the U.S. as well as a theoretical analysis of issues of race, culture, gender, and diverse traditions in the American multicultural setting.

Credits: 3.

#### ALAN 055 - Racism and American Culture

Survey and analysis of racism in the development of American institutions and its effects upon ALANA groups and societies.

Credits: 3.

#### ALAN 095 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 3.

#### ALAN 096 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 3.

#### ALAN 158 - American Multicultrl Heritage

History and culture of ALANA groups, their role in and contributions to the American cultural heritage. Prerequisites: ALAN 051 or ALAN 055 or having previously satisfied the College of Arts and Sciences Race and Ethnicity requirement.

Credits: 3.

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### **ALAN 159 - Am Cultrl Images ALANA Peoples**

Comparative study of ALANA groups and the stereotypical and archetypal impressions projected on peoples of color in American society. Prerequisites: ALAN 051 or ALAN 055 or having previously satisfied the College of Arts and Sciences Race and Ethnicity requirement.

Credits: 3.

### **ALAN 191 - Field Experience: Internship**

contract must be obtained from and returned to the ALANA Studies program during preregistration.

Credits: 3.

### **ALAN 192 - Field Experience Seminar**

courses in appropriate field and program permission. A contract must be obtained from and returned to the ALANA

Credits: 3.

### **ALAN 195 - Intermediate Special Topics**

Intermediate courses or seminars beyond the scope of existing ALANA offerings. See Schedule of Courses for specific titles. Prerequisite: Sophomore standing.

Credits: 3.

### **ALAN 196 - Intermediate Special Topics**

Intermediate courses or seminars beyond the scope of existing ALANA offerings. See Schedule of Courses for specific titles. Prerequisite: Sophomore standing.

Credits: 3.

### **ALAN 197 - Readings and Research**

Credits: 1-12.

### **ALAN 198 - Readings and Research**

Credits: 1-12.

### **ALAN 269 - Cross-Cultural Psyc: Clin Persp**

Introduction to issues posed for psychologists in their work with ALANA (African, Latino/a, Native and Asian American) and international populations. Critical appraisal of readings, research and case studies. Prerequisites: PSYC 1, 109. (Same as PSYC 269)

Credits: 3.

### **ALAN 277 - Sem in ALANA US Ethnic Studies**

Interdisciplinary examination of theories on the position of ALANA peoples in U.S. culture and society. Emphasis on relationship between race, class, gender, and ethnicity. Prerequisites: Six hours in ALANA U.S. Ethnic Studies; admission to ALANA U.S. Ethnic Studies minor program. Not offered for graduate credit.)

Credits: 3.

### **ALAN 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing

departments. See Schedule of Courses for specific titles. Prerequisite: Junior standing. (Not offered for graduate credit.)

Credits: 3.

### **ALAN 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departments. See Schedule of Courses for specific titles. Prerequisite: Junior standing. (Not offered for graduate credit.)

Credits: 3.

### **ALAN 297 - Independent Study**

Special topics in consultation with ALANA U.S. Ethnic Studies faculty.

Prerequisites: Permission of program director; junior standing. (Not offered for graduate credit.)

Credits: 3.

### **ALAN 298 - Independent Study**

Special topics in consultation with ALANA U.S. Ethnic Studies faculty.

Prerequisites: Permission of program director; junior standing. (Not offered for graduate credit.)

Credits: 3.

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## **Courses in Physical Therapy**

### **PT 095 - Special Topics**

Credits: 1-6.

### **PT 201 - Clinical Science&Practice Sem**

or equivalent;

Credits: 2.

### **PT 202 - Clinic Science&Practice Sem II**

Forum to learn, analyze and discuss scientific, clinical and professional issues related to individuals with non-complex conditions involving the cardiopulmonary system and spinal musculoskeletal problems. Prerequisite: PT 201. Co-requisite: PT 212, PT 222, PT 232.

Credits: 2.

### **PT 211 - Clinical Skills Laboratory I**

Laboratory experiences in which students will learn foundational biomechanical principles, kinesiology of joints and practice observational, verbal, written, manual and intellectual skills involved in PT examination, evaluation, and management of patients with non-complex conditions of the peripheral joints of the musculoskeletal system. Co-requisite: PT 201, PT 221.

Credits: 3.

### **PT 212 - Clinical Skills Labs II**

Laboratory to practice skills in PT examination, evaluation, and management of

patients with non-complex conditions involving primarily peripheral and spinal musculoskeletal problems. Prerequisites: ANNB 201; MPBP 201; PT 210, 211, 221. Co-requisites: PT 202, 222,232; MPBP 202.

Credits: 3.

**PT 221 - Tutorial I-Clin Care Issues I**

Tutorials to investigate, apply and integrate relevant basic and social sciences applied to persons with non-complex conditions involving primarily peripheral joint problems of the neuromusculo-skeletal system. Co-requisite: PT 201; PT 211.

Credits: 2.

**PT 222 - Tutorials II**

Tutorials where students investigate, apply and integrate foundational sciences as applied to patients with non-complex conditions involving the cardiopulmonary system and spinal musculoskeletal problems. Prerequisite: PT 221. Co-requisite: PT 202, PT 212, PT 232.

Credits: 2.

**PT 232 - Clinical Education I**

Clinical experience to understand the role of the physical therapist. Practice specific skills of examination, evaluation and intervention in primarily out-patient musculo-skeletal settings. Pre-requisite: PT 201, PT 211, PT 221. Co-requisite: PT 202, PT 212, PT 222.

Credits: 2.

**PT 255 - Prof Abilities Assessment**

Assessment of students' professional behaviors by faculty, based upon generic abilities and the expected stage of development, examined within all courses during the semester.

Credits: 0.

**PT 302 - Prof Practice I**

Credits: 2.

**PT 315 - Clinical Skills Lab III**

and multiple systems impairments and disabilities. Students practice observational, verbal, written, manual, and intellectual skills in PT examination, evaluation, and management of peripheral neruo-musculo-skeletal, metabolic Prerequisites:211,212. Co-requisites:323, 341, 333, 355.

Credits: 4.

**PT 316 - Clinical Skills Lab IV**

conditions. Prerequisite: PT 211, PT 212, PT 315. Students practice observational, verbal, written, manual, and intellectual skills in PT examination, evaluation, and management of individuals with various neurological Co-requisite: PT 324, PT 342, PT 355.

Credits: 4.

**PT 317 - Clinical Skills Laboratory V**



Therapeutic approaches to pain, restoration of function and movement, assistive technology, training and education, patient advocacy, and coordination of care throughout the life span. Prerequisite: PT 211, PT 212, PT 315, PT 316. Co-requisite: PT 325, PT 334, PT 343.

Credits: 3.

**PT 323 - Tutorial III**

Small group tutorials to investigate, apply and integrate the relevant foundational sciences pertaining to persons multiple systems impairments and disabilities.

Prerequisite: PT 221, PT 222. with peripheral neuro-musculo-skeletal, metabolic and

Credits: 4.

**PT 324 - Tutorial IV**

Small group tutorials to investigate, apply and integrate the relevant foundational sciences pertaining to persons with various neurological conditions. Prerequisite: PT 221, PT 222, PT 323. Co-requisite: PT 316, PT 342, PT 355.

Credits: 4.

**PT 325 - Tutorials V**

health, politics, culture, ethics and professionalism, patient advocate and health team member. Prerequisite: PT 221, PT 222, PT 323, PT 326. Co-requisite: PT 316, PT 334, PT 343.

Credits: 3.

**PT 333 - Clinical Education II**

6-week clinical experience providing opportunities for integration of didactic information and clinical skills for safe, effective, comprehensive patient care in same setting 222, PT 232.

Credits: 3.

**PT 334 - Clinical Education III**

A 8-week full-time experience integrating didactic information with clinical skills in one of three treatment settings. Focus: critical thinking, problem solving, and application of skills. Prerequisite: PT 232, PT 333.

Credits: 4.

**PT 335 - Clinical Education IV**

clinical settings is required. Prerequisite: Two 8-week, full-time clinical experiences integrating didactic information and clinical skills. Practice and refine skills, attitudes and behaviors. A variety of PT 232, PT 333, PT 334.

Credits: 6.

**PT 336 - Clinical Education V**

Two 8-week, full-time clinical experiences integrating didactic information and clinical skills. Practice and refine skills, attitudes and behaviors. A variety of clinical settings is required. Prerequisites: 232, 333, 334, 335.

Credits: 6.

**PT 341 - Clin Science&Practice Sem III**

Large group forum to learn, analyze, and discuss scientific, clinical, and professional practice issues related to peripheral neurologic, metabolic, and multiple systems impairment and disabilities. Prerequisite: PT 201, PT 202. Co-requisite: PT 315, PT 323, PT 333, PT 355.

Credits: 4.

**PT 342 - Clin Science&Practice Sem IV**

Learn analyze and discuss scientific, clinical and

Credits: 4.

**PT 343 - Clin Science & Practice Sem V**

Explore global/societal aspects of health care delivery, focusing on role of physical therapist as consultant, interdisciplinary health team member, and advocate in health care. Prerequisite: PT 201, PT 202, PT 341, PT 342. Co-requisite: PT 316, PT 325, PT 334.

Credits: 4.

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## Faculty for ALANA U.S. Ethnic Studies Program

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## Anthropology Department

### Contact Information

University of Vermont  
 Anthropology Department  
 509 Williams Hall  
 72 University Place  
 Burlington, VT 05405-0168

Phone: (802) 656-3884  
 Fax: (802) 656-4406  
 Email: [Cynthia.Longwell@uvm.edu](mailto:Cynthia.Longwell@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Anthropology Department > Academic Offerings > Anthropology (B.A.)

## Anthropology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty credits in Anthropology including [ANTH 021](#), [ANTH 024](#), [ANTH 026](#), and [ANTH 028](#); [ANTH 225](#) or [ANTH 228](#) (recommended for the junior year) and five additional courses, of which three should be at the 100-level and at least one at the 200-level.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Archaeology (Undergraduate Minor)

### Specific Requirements

This minor is only available to students pursuing degree programs offered by the College of Arts and Sciences.

[ANTH 024](#); [ANTH 210](#); three from the following: [ANTH 160](#), [ANTH 161](#), [ANTH 188](#), [ANTH 200](#), [ANTH 250](#).

### Affiliations

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## Linguistic Anthropology (Undergraduate Minor)

### Specific Requirements

Fifteen credits to include [ANTH 028](#); [ANTH 176](#) or [ANTH 178](#); [ANTH 276](#) or [ANTH 284](#) or [PSYC 237](#); and two of the following: [CMSI 160](#), [CMSI 162](#), and any course in Anthropology at the 100-level or above.

### Affiliations

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## Social Anthropology (Undergraduate Minor)

### Specific Requirements

ANTH 021; two topical courses plus one "peoples" course, or one topical and two "peoples" courses; and any 200-level course, except ANTH 200, ANTH 210, ANTH 297, ANTH 298. Nine credits must be at the 100-level or above.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
- Departments and Programs:Anthropology Department.

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## Courses in Anthropology

### ANTH 021 - Human Cultures

Introduction to cultural anthropology focusing on the life ways of non-Western societies and how anthropologists study them.

Credits: 3.

### ANTH 023 - Anthropology Third World Dev

A survey of the role of applied anthropology in the understanding and analysis of development efforts to alleviate (mostly) third world problems.

Credits: 3.

### ANTH 024 - Prehistoric Archaeology

Examination of the origins and development of culture from the earliest human fossils through the appearance of civilization; the nature of archaeological data and interpretations.

Credits: 3.

### ANTH 026 - Biological Anthropology

Introduction to the study of the evolution and physical

Credits: 3.

### ANTH 028 - Linguistic Anthropology

human culture and human social interaction.

Credits: 3.

### ANTH 064 - Native Americans of Vermont

Vermont's native peoples from their earliest appearance in the region until today. Archaeological and ethnographic data reviewed in the broader perspective of aboriginal Northeastern cultural history. Alternate years.

Credits: 3.

### ANTH 095 - Introductory Special Topics

Education

See Schedule of Courses for specific titles.

• Graduate College

Credits: 1-3.

• Honors College

**ANTH 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

• School of Business  
Administration

Credits: 1-3.

• The Rubenstein  
School of  
Environment and  
Natural Resources

**ANTH 140 - Primates and Anthropology**

ANTH 026. A survey of behavior and anatomy of nonhuman primates (monkeys, apes and prosimians) from an anthropological perspective. Pre/co-requisite: ANTH 021 or

Credits: 3.

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**ANTH 151 - Anth of East Europe**

Pre/co-requisite: ANTH 021 or a 100-level Russia/East Survey of cultures of Central and Eastern Europe during the socialist and post-socialist periods with an emphasis on social, cultural, and economic transformation since 1985. European Studies course.

Credits: 3.

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**ANTH 152 - Cultures of East Asia**

21

Credits: 3.

**ANTH 160 - North American Indians**

Ethnographic survey of major Native American cultures of Mesoamerica and the U.S. against background of aboriginal culture history, and problems of contact with European cultures. Prerequisite: ANTH 021. Alternate years.

Credits: 3.

**ANTH 161 - Cultures of South America**

Ethnographic survey of major native American cultures south of Mesoamerica against background of aboriginal culture history, and their relation to present day culture spheres. Prerequisite: 21. Alternate years.

Credits: 3.

**ANTH 162 - Cultures of Africa**

Ethnographic survey of representative native societies of sub-Saharan Africa and major colonial/immigrant minorities emphasizing changes resulting from colonialism, independence, and modernization. Prerequisite: ANTH 021. Alternate years.

Credits: 3.

**ANTH 163 - South Pacific Cultures**

Survey of major cultural areas of the South Pacific including problems of prehistory, contact with Western colonialism, and contemporary life. Prerequisite: ANTH 021. Alternate years.

Credits: 3.

**ANTH 165 - Peoples of South Asia**

Culture and social organization of peoples of Pakistan, India, Bangladesh, and Sri Lanka. Theoretical issues in anthropological analysis of these societies discussed. Prerequisite: ANTH 021. Alternate years.

Credits: 3.

**ANTH 166 - Peoples of the Middle East**

Culture and social organization of peoples living in lands from Morocco to Afghanistan, including a consideration of Islam. Prerequisite: ANTH 021. Alternate years.

Credits: 3.

**ANTH 167 - Native Peoples of Canada**

Traditional life-ways of the native peoples of Canada, Indian, and Inuit; contemporary issues in native life in Canada. Prerequisites: ANTH 021 or GEOG 052 or HST 065 or HST 066. Alternate years.

Credits: 3.

**ANTH 169 - Latinos in the United States**

Survey of peoples of Latino/Hispanic descent living in the U.S. Course examines their similarities and differences in history, ethnic identification, and cultural practices. Prerequisite: ANTH 021.

Credits: 3.

**ANTH 172 - Gender, Sex and Culture**

Cross-cultural study of gender, sex and sexuality, including exploring the cultural construction of categories and cultural practices related to gender, sex and sexuality. Pre/co-requisite: ANTH 021.

Credits: 3.

**ANTH 174 - Culture, Health and Healing**

to health and health care. Pre/co-requisite: ANTH 021 or Introduction to medical anthropology. Social and cultural perspectives on health and illness experiences, doctor-patient interactions, healing practices, and access three credits of Sociology. Cross-listed with: SOC 155.

Credits: 3.

**ANTH 176 - Topics in Linguistic Anthropology**

Intermediate level special topics in linguistic anthropology. Pre/co-requisites: ANTH 28 or CMSI 80.

Credits: 3.

**ANTH 178 - Sociolinguistics**

interaction. Prerequisite: 28. Exploration of language and nonverbal interactions as cultural activities. Focus on rules and patterns people display appropriate to communication and social

Credits: 3.

**ANTH 179 - Environmental Anthropology**

Introduction to how culture mediates human- environmental interactions. Topics include cultural, spiritual, and political ecology; forms of resource management; environmentalism; sustainable development; and environmental justice. Pre/co-requisite: ANTH 021, ANTH 023, and ANTH 024 or Instructor permission.

Credits: 3.

### **ANTH 180 - Psychological Anthropology**

Cross-cultural study of the individual in a sociocultural context examining cognition and culture, symbols, alternative states of consciousness, human sexuality, deviance and madness, and ethnotherapy. Prerequisite: 21. Alternate years.

Credits: 3.

### **ANTH 181 - Law, War and Disorder**

Introduction to the anthropology of law and conflict management emphasizing the cultural fora and social organization of disputes and efforts to deal with conflict.

Prerequisite: ANTH 021.

Credits: 3.

### **ANTH 187 - Race and Ethnicity**

ANTH 021. Cross-listed with: SOC 119.

Credits: 3.

### **ANTH 188 - Historical Archaeology**

Survey of field, lab, and archival research methods; specialized studies of material culture; selected topics on ethnicity in the Americas, gender and status.

Prerequisites: ANTH 024. Alternate years.

Credits: 3.

### **ANTH 189 - Aging in Cross-Cultural Persp**

Aging from an anthropological perspective. Topics include the biology of aging; aging in hunting, pastoral, fishing, and horticultural societies; aging in contemporary ethnic America. Prerequisites: 21 or Sociology 20. Alternate years.

Credits: 3.

### **ANTH 190 - ISSP Thesis**

Independent study for students enrolled in Integrated Social Sciences Program; final product is thesis. Prerequisite: Enrollment in ISSP courses.

Credits: 3.

### **ANTH 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 0-6.

### **ANTH 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

### **ANTH 197 - Readings & Research**

Credits: 1-6.

**ANTH 198 - Readings & Research**

Credits: 1-12.

**ANTH 200 - Field Work in Archaeology**

Methods and techniques of archaeological investigation in field situations and the laboratory analysis of data. Prerequisites: 24, one 100-level course in anthropology or history, instructor's permission. Summers only.

Credits: 3-6.

**ANTH 201 - Practicum & Internship**

Supervised service or research integrating theoretical and practical anthropological issues. Prerequisite: Nine hours of anthropology. UG only.

Credits: 1-12.

**ANTH 210 - Archaeological Theory**

Development of archaeology from the 19th century to the present including concepts of form, space and time, intellectual attitudes, current systems theory, and research strategies. Prerequisites: ANTH 024, one 100-level Anthropology course; or HP 201; or graduate standing in Historic Preservation Program, or HIST 121, HIST 122, or HIST 149. Alternate years.

Credits: 3.

**ANTH 220 - Develop & Applied Anthropology**

politics of expertise. Prerequisites: ANTH 23, three Seminar examines the application of anthropological knowledge and methodologies to alleviate social problems around the world, with a special focus on the cultural 100-level courses, or instructor's permission. Alternate years.

Credits: 3.

**ANTH 225 - Anthropological Theory**

Schools of anthropological thought examined in relation to data on non-Western societies and the historical and social context in which the anthropologist works.

Prerequisites: ANTH 021, one 100-level course.

Credits: 3.

**ANTH 228 - Social Organization**

Examination of the basic anthropological concepts and theories used in the cross-cultural analysis of kinship and marriage. Prerequisites: ANTH 021, one 100-level course.

Credits: 3.

**ANTH 250 - Museum Anthropology**

The cultural context of selected archaeological and ethnographic collections at Fleming Museum; cataloguing, conservation, research, and interpretation of objects; exhibition design and ethical issues. Prerequisites: Junior standing; Anthropology, Art History, Studio Art majors and minors. Alternate years.

Credits: 3.

**ANTH 276 - Adv Topics in Linguistics**

Advanced special topics in linguistics, sociolinguistics and linguistic anthropology. Pre/co-requisites: ANTH 028 and one 100-level Anthropology course or permission of the Instructor.

Credits: 3.

**ANTH 283 - Colonialism**

The concepts, ideologies, and practice(s) of colonialism within a sociocultural and historical context emphasizing the cultures of the colonizer and the colonized and the interaction thereof. Prerequisites: ANTH 021, one 100-level course, or ANTH 021, six hours in the social sciences. Alternate years.

Credits: 3.

**ANTH 284 - Linguistic Anthropology Mthds**

Exploration of key methodologies in linguistic anthropology, including theories and practice of eliciting linguistic data, conducting interviews, transcribing audio- and video-taped interactions, and analyzing conversations. Pre/co-requisites: ANTH 28 or CMSI 80 and 1 Anthropology course at the 100 level or above.

Credits: 3.

**ANTH 290 - Meth of Ethnographic Field Wrk**

Examination of theoretical and ethical premises of field work methodology with practical experience in participant observation, interviewing, the genealogical method, and the recording of data. Prerequisite: Twelve hours of Anthropology. Alternate years.

Credits: 3.

**ANTH 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisites: ANTH 021, one 100-level course.

Credits: 1-6.

**ANTH 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisites: ANTH 021, one 100-level course.

Credits: 1-6.

**ANTH 297 - Advanced Readings & Research**

Prerequisite: Junior/Senior standing.

Credits: 1-3.

**ANTH 298 - Advanced Readings & Research**

Prerequisite: Junior/Senior standing.

Credits: 1-3.

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## Faculty for Anthropology Department

Deborah Eileen Blom

Associate Professor of Anthropology

Chairperson of Anthropology

Appointed in 1998

Anthropology Department

BS 1990 University of Houston

MA 1992 University of Chicago

PHD 1999 University of Chicago

Search Courses for Deborah Blom

John Gordon Crock

Associate Professor of Anthropology

Director Consulting Archaeology Program of the Anthropology Dept.

Appointed in 2000

Anthropology Department

BA 1989 University of Vermont

PHD 2000 University of Pittsburgh

Search Courses for John Crock

Jennifer A. Dickinson

Associate Professor of Anthropology

Director of Center for Teaching and Learning

Appointed in 2002

Anthropology Department

Center for Teaching and Learning

AB 1992 Bryn Mawr College

MA 1995 University of Michigan Ann Arbor



Education MA 1996 [University of Michigan Ann Arbor](#)  
PHD 1999 [University of Michigan Ann Arbor](#)  
• Graduate College [Search Courses for Jennifer Dickinson](#)

• Honors College

• School of Business Administration

Robert James Gordon  
Professor of Anthropology  
Appointed in [1979](#)

• The Rubenstein School of Environment and Natural Resources

[Anthropology Department](#)  
BA 1970 [University of Stellenbosch](#)  
MA 1972 [University of Stellenbosch](#)  
PHD 1977 [University of Illinois Urbana-Champaign](#)  
[Search Courses for Robert Gordon](#)

Policies and General Information

Faculty and Administration

Catherine M. Holly  
Lecturer I of Anthropology  
Appointed in [2003](#)  
[Anthropology Department](#)

Catalogue Archives

BS 1990 [California Polytechnic State University San Luis Obispo](#)  
MA 1996 [University of California Berkeley](#)  
[Search Courses for Catherine Holly](#)

Patricia M. Nelson  
Lecturer I of Anthropology  
Appointed in [2003](#)  
[Anthropology Department](#)  
BA 1998 [University of Vermont](#)  
MA 2000 [University of Maryland](#)  
[Search Courses for Patricia Nelson](#)

Jeanne Laraine Shea  
Associate Professor of Anthropology  
Appointed in [1998](#)  
[Anthropology Department](#)  
BA 1989 [Dartmouth College](#)  
MA 1994 [Harvard University](#)  
PHD 1998 [Harvard University](#)  
[Search Courses for Jeanne Shea](#)

Vicki L. Torsch  
Lecturer I of Anthropology  
Appointed in [1999](#)  
[Anthropology Department](#)

BSN 1970 [University of Oklahoma Norman](#)

MSN 1972 [Wayne State University](#)

MA 1992 [University of Oklahoma Norman](#)

PHD 1996 [University of Oklahoma Norman](#)

[Search Courses for Vicki Torsch](#)

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Luis A. Vivanco

Associate Professor of Anthropology

Director of Global and Regional Studies

Appointed in [1999](#)

[Anthropology Department](#)

[Global and Regional Studies Program](#)

AB 1991 [Dartmouth College](#)

MA 1995 [Princeton University](#)

PHD 1999 [Princeton University](#)

[Search Courses for Luis Vivanco](#)

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## Area and International Studies Program

### Contact Information

*University of Vermont  
Area and International Studies Program  
A507 Old Mill  
94 University Place  
Burlington, VT 05405*

Phone: (802) 656-8665

Fax: (802) 656-1376

Email: [Kevin.McKenna@uvm.edu](mailto:Kevin.McKenna@uvm.edu)

[Web Site](#)

### Overview

Entering students are invited to consider the option of concentrating in Area and International Studies. Courses in several academic disciplines can be combined so as to focus on a particular area of the world, thus providing an opportunity to test generalizations against the particular reality of a geographical area and its people.

Undergraduates who major in Area and International Studies usually accumulate sufficient credit to enable them also to fulfill department requirements in one of the social sciences, humanities, or foreign languages.

Major programs are available in the following five areas: Asia, Canada, Latin America, Russia/East Europe, Europe (Western, Northern, Mediterranean). Minor programs are also available in these areas, as well as in Africa and the Middle East.

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- Education
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  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources
- The approach to undergraduate education combines exposure to the traditional disciplines with integrative knowledge and appreciation of a foreign culture and thus combines the broad liberal arts education with a more specific area competence.
- During their first and sophomore years, students who plan to major in Area and International Studies should take the required foreign language courses as well as beginning courses in the humanities and social sciences which are prerequisites for subsequent required courses and also meet the general distribution requirements.
- Students interested in concentrating in Area and International Studies are urged to contact the Director.

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## African Studies (Undergraduate Minor)

### Specific Requirements

A total of 18 credit hours (six courses), at least nine of which must be at the 100-level or above, and which must include the following:

#### A. Core Courses

(at least four from the following):

- [ANTH 162 - Cultures of Africa](#)
- [ENG 061 - Intro to African Literature](#)
- [GEOG 051 - Africa](#)
- [HST 040 - African History to C-1870](#) or [HST 041 - Africa From C-1870 to Present](#)
- [POLIS 177 - Pol Sys of Tropical Africa](#)

#### B. Secondary Courses

(two courses chosen from among the following):

- [AIS 093 - So Africa: Politic/Race&Culture](#)
- [ENG 173 - Topics Pan-African Literature](#)
- [FREN 289 - African Lit: French Expression](#)
- [GEOG 151 - Southern Africa](#)
- [HST 040 - African History to C-1870](#) or [HST 041 - Africa From C-1870 to Present](#)  
(where it does not count towards fulfilling the requirement listed in A)
- [HST 140 - W Africa: Holy War-Colonialism](#)
- [HST 141 - History of Southern Africa](#)
- [HST 142 - Nigeria: Giant of Africa](#)
- [HST 241 - Seminar in African History](#)
- [SOC 272 - Soc of African Societies](#)

Courses in category B may be replaced by any of the following courses provided that the

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student undertakes significant research or projects covering african material. Students may count these courses towards fulfillment of the minor requirement only with the approval of the director of African Studies. Such petitions will be decided on a case by case basis.

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

- [ANTH 023 - Anthropology Third World Dev](#)
- [ANTH 179 - Environmental Anthropology](#)
- [ANTH 181 - Law, War and Disorder](#)
- [ANTH 220 - Develop&Applied Anthropology](#)
- [ANTH 283 - Colonialism](#)
- [EDFS 206 - Comparative Education](#)
- [ENGS 177 - Topics in 20C Afr Am Lit & Cul](#)
- [ENGS 182 - Colonial/Post-Col World Lit](#)
- [GEOG 154 - Geography of Third World Dev](#)
- [GEOG 177 - Political Geography](#)
- [GEOG 179 - Cultural Ecology](#)
- [HST 240 - Comparative Slavery:Hist Persp](#)
- [POLS 071 - Comparative Political Systems](#)
- [POLS 277 - Comparative Ethno-Nationalism](#)
- [SOC 171 - Soc Chng&Dev Persp in 3rd Wrld](#)
- [SOC 213 - Women in Dev in 3rd World](#)
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## Asian Studies (Bachelor of Arts)

### Overview

- [Asian Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Asian Studies major consists of at least 33 credit hours in courses from the Asian Studies listing (see Courses of Instruction; Asian Studies) to include the following:

- Completion of two years' (normally 16 credits) study of a language of the geographic subarea of concentration. No more than 16 hours of language study may be counted toward the major. For students who have demonstrated fluency in the language of the subarea of concentration (for instance, native speakers of the language), the language requirement will be waived. Such students will still be required to complete the 33-credit hour requirement.
- The remaining credit hours must include at least nine credits at the 100-level and three credits at the 200-level. These credits must be selected from at least three academic disciplines. Language courses may not be used to fulfill this requirement.

Note: Courses significantly but not entirely on Asia may be counted toward a student's major requirements only if papers or projects relevant to their Asian subarea or their Asian thematic focus have been completed. The Dean's Office must receive written approval from the advisor in order for these courses to be counted toward the major.



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Students who major in Asian Studies and minor in an Asian language may overlap only one course as is stipulated in the College of Arts and Sciences.

• Graduate College

• Honors College

• School of Business Administration

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## Asian Studies Course Offerings

The following courses are among the course offerings. **E**, **S**, indicates courses on East and South, subareas of Asian respectively. Also see Area and International Studies for special topic listings.

### Courses Entirely on Asia

- [ANTH 615 - Peoples of South Asia](#) (S)
- [ART 008 - Asian Art](#) (E,S)
- [ART 185 - Japanese Art](#) (E)
- [ART 187 - Chinese Painting](#) (E)
- [ART 188 - Indian Painting](#) (S)
- [ART 192 - Inter Spec Topics in Asian Art](#) (E,S)
- [ART 285 - Seminar in Asian Art](#) (E,S)
- [CHIN 001 - Elementary](#) (E)
- [CHIN 002 - Elementary](#) (E)
- [CHIN 051 - Intermediate](#) (E)
- [CHIN 052 - Intermediate](#) (E)
- [CHIN 101 - Advanced Chinese](#) (E)
- [CHIN 102 - Advanced Chinese](#) (E)
- [CHIN 201 - Adv Conversation & Composition](#) (E)
- [CHIN 202 - Adv Conversation & Composition](#) (E)
- [HST 050 - China & Japan to 1800](#) (E)
- [HST 051 - China & Japan since 1800](#) (E)
- [HST 150 - China:The 19th&20th Centuries](#) (E)
- [HST 151 - Modern Japan](#) (E)
- [HST 152 - The Chinese Revolution](#) (E)
- [HST 250 - Seminar in East Asian History](#) (E)
- [HST 252 - Seminar on China](#) (E)
- [JAPN 001 - Elementary Japanese](#) (E)
- [JAPN 002 - Elementary Japanese](#) (E)

- [JAPN 051 - Intermediate Japanese](#) (E)
- [JAPN 052 - Intermediate Japanese](#) (E)
- [JAPN 101 - Advanced Japanese](#) (E)
- [JAPN 102 - Advanced Japanese](#) (E)
- [JAPN 201 - Studies of Japanese Texts](#) (E)
- [JAPN 202 - Studies of Japanese Texts](#) (E)
- [PHIL 003 - Intro Philosphy: East & West](#) (E)
- [PHIL 121 - Chinese Philosphy I](#) (E)
- [PHIL 122 - Chinese Philosphy II](#) (E)
- [PHIL 221 - Topics in Chinese Philosphy](#) (E)
- [POLS 175 - Govt & Politics of China](#) (E)
- [REL 021 - Intro Rel:Asian Traditions](#) (E,S)
- [REL 131 - Studies in Hindu Tradition](#) (S)
- [REL 132 - Buddhist Traditions](#) (E,S)
- [REL 141 - Religion in Japan](#) (E)
- [REL 145 - Religion in China](#) (E)
- [REL 240 - Studies in Asian Religions](#) (E,S)
- [WLIT 110 - Classical Chinese Lit in Trans](#) (E)

### Courses Significantly on Asia

- [ANTH 163 - South Pacific Cultures](#) (S)
- [EDFS 206 - Comparative Education](#) (E,S)
- [GEOG 001 - World Regional Geography](#) (E,S,W)
- [PSYC 237 - Cross-Cultural Communication](#) (E,S)
- [REL 020 - Intro Rel:Comparative](#) (E,S)
- [REL 101 - Social Dimension Rel Life](#) (E,S)
- [REL 104 - Mysticism,Shamanism & Possessn](#) (E,S)
- [REL 108 - Myth, Symbol, & Ritual](#) (E,S)
- [REL 168 - Contemporary Spiritual Life](#) (E,S)

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## Asian Studies (Undergraduate Minor)

### Specific Requirements

In selecting courses from the Asian Studies listing, students must consult with an appropriate Asian Studies advisor and demonstrate in their choices thematic and/or geographic coherence. Such courses must also accord with the following requirements:

Eighteen hours in courses from the Asian Studies listing (see Courses of Instruction; Asian Studies) including at least two courses in an Asian language, and at least one course in each of two other academic disciplines. At least eight credit hours must be at the 100 level or above. For students who have demonstrated fluency in an Asian language relevant to the other courses they have chosen for their minor concentration (for instance, native speakers of the language) the language requirement will be waived, and courses from a third academic discipline will be substituted.

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## Canadian Studies (Bachelor of Arts)

### Overview

- [Canadian Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Canadian Studies major requires at least 30 credit hours to consist of the following:

- Three required courses: - [Introduction to Canada](#); [HST 066](#) - Canada Since 1868; [AIS 296](#) - Seminar on Modern Canada.
- Seven additional courses, of which at least six must be at the 100-level or above, and of which at least five must be chosen from the following 100 percent Canadian content list: [AIS 195](#), [AIS 196](#), [AIS 295](#); [ANTH 167](#); [ART 180](#), [ART 282](#) (when topic is Canadian); [BSAD 234](#); [ENGS 157](#), [ENGS 158](#); [FREN 293](#), [FREN 285](#); [GEOG 052](#), [GEOG 210](#); [GEOL 272](#), [GEOL 273](#) (when this field course goes to Canada); [HST 065](#), [HST 265](#), [HST 165](#); [POLS 173](#).
- Majors will study French language through the intermediate level (FREN 052) or higher.

Majors are strongly encouraged to acquire an intermediate/advanced proficiency by completing at least [FREN 201](#). Majors pursuing intermediate/advanced proficiency should consult with the Canadian Studies faculty of the Romance Languages Department to determine an appropriate plan of study.



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## Canadian Studies Course Offerings

The following courses are among the course offerings. Also see Area and International Studies for special topic listings.

- [ANTH 167 - Native Peoples of Canada](#)
- [ANTH 178 - Sociolinguistics](#)
- [ART 180 - No American Art:1600-1900](#)
- [ART 282 - Seminar in Western Art](#)
- [AIS 091 - Introduction to Area \(A\)](#)
- [AIS 197 - Readings & Research](#)
- [AIS 198 - Readings & Research](#)
- [AIS 295 - Advanced Special Topics](#)
- [AIS 296 - Advanced Special Topics](#)
- [ENGS 180 - Topics in Canadian Literature](#)
- [FREN 285 - Quebec Literature](#)
- [FREN 293 - Quebec Culture](#)
- [GEOG 052 - Canada](#)
- [GEOL 273 - Geology of the Appalachians](#)
- [HST 065 - History of Canada](#)
- [HST 165 - Canadian-American Relations](#)
- [HST 265 - Seminar in Canadian History](#)
- [POLS 071 - Comparative Political Systems](#)
- [POLS 173 - Canadian Political System](#)
- [SOC 096 - Introductory Special Topics](#)
- [SOC 132 - Affluence & Poverty in Mod Soc](#)

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## Canadian Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours to include International Studies 91 or History 66 (History 65 upon approval of advisor), and 15 hours to be chosen from the Canadian content list (see major listing for approved courses) of which at least 12 hours must be at the 100 level or above. Students will fulfill the language requirement with French.

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## European Studies (Bachelor of Arts)

### Overview

- [European Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A total of 33 credits in approved European Studies courses to include nine credits at the 200-level. No more than 12 credits may be taken from any one discipline. Only 15 credits of transfer credit may be applied toward the major. Students must consult closely with their European Studies advisor in the development of a coherent program of courses.

- A. European Studies seminar: Senior research project: All seniors must complete a research project for at least three credits on a subject focused on northern, western, or Mediterranean Europe and approved by the European Studies subcommittee. This requirement can be fulfilled by [AIS 291](#) (European Studies Seminar); [AIS 234](#) and [AIS 235](#) (Honors/International Studies); [AIS 297](#) or [AIS 298](#) (Advanced Readings and Research). Students should expect to use their competency in a European language (other than English) in this research project where relevant. Upon request, the European Studies subcommittee may approve a research project done in conjunction with a 200-level seminar offered by one of the college's departments.
- B. European culture and thought: Twelve hours from the approved list to include six hours at the 100 level or above. [ART 005](#), [ART 006](#), [ART 148](#), [ART 149](#), [ART 155](#), [ART 158](#), [ART 161](#), [ART 164](#), [ART 165](#), [ART 170](#), [ART 172](#), [ART 174](#), [ART 177](#),



<ul style="list-style-type: none"> <li>Education</li> <li>• Graduate College</li> <li>• Honors College</li> <li>• School of Business Administration</li> <li>• The Rubenstein School of Environment and Natural Resources</li> </ul>	<p>and <a href="#">ART 179</a> or <a href="#">ART 282</a> (when the content is European); <a href="#">CLAS 024</a>, <a href="#">CLAS 033</a>, <a href="#">CLAS 035</a>, <a href="#">CLAS 037</a>, <a href="#">CLAS 042</a>, CLAS 153-159; <a href="#">ENGS 021</a>, <a href="#">ENGS 022</a>, ENGS 025-28, <a href="#">ENGS 085</a>, <a href="#">ENGS 086</a>, <a href="#">ENGS 102</a>, <a href="#">ENGS 131</a>, <a href="#">ENGS 133</a>, <a href="#">ENGS 134</a>, <a href="#">ENGS 135</a>, <a href="#">ENGS 136</a>, <a href="#">ENGS 137</a>, <a href="#">ENGS 161</a>, <a href="#">ENGS 162</a>, <a href="#">ENGS 165</a>, <a href="#">ENGS 221</a>, <a href="#">ENGS 222</a>, <a href="#">ENGS 241</a>, <a href="#">ENGS 242</a>; <a href="#">FILM 005</a>, <a href="#">FILM 006</a>, <a href="#">FILM 107</a>, <a href="#">FILM 161</a>; <a href="#">FREN 111</a>, <a href="#">FREN 112</a>, <a href="#">FREN 235</a>, <a href="#">FREN 247</a>, <a href="#">FREN 255</a>, <a href="#">FREN 265</a>, <a href="#">FREN 266</a>, <a href="#">FREN 275</a>, <a href="#">FREN 276</a>, <a href="#">FREN 291</a>, <a href="#">FREN 292</a>; <a href="#">GERM 104</a>, <a href="#">GERM 121</a>, <a href="#">GERM 122</a>, <a href="#">GERM 155</a>, <a href="#">GERM 156</a>, <a href="#">GERM 201</a>, <a href="#">GERM 213</a>, <a href="#">GERM 214</a>, <a href="#">GERM 225</a>, <a href="#">GERM 226</a>, <a href="#">GERM 237</a>, <a href="#">GERM 238</a>, <a href="#">GERM 247</a>, <a href="#">GERM 248</a>, <a href="#">GERM 251</a>, <a href="#">GERM 252</a>, <a href="#">GERM 263</a>, <a href="#">GERM 264</a>, <a href="#">GERM 271</a>, <a href="#">GERM 273</a>, <a href="#">GERM 275</a>, <a href="#">GERM 276</a>, <a href="#">GERM 278</a>, <a href="#">GERM 279</a>, <a href="#">GERM 281</a>, <a href="#">GERM 282</a>; Greek: all courses above 100-level; <a href="#">ITAL 121</a>, <a href="#">ITAL 122</a>, <a href="#">ITAL 157</a>, <a href="#">ITAL 158</a>; Latin: all courses above 100-level; <a href="#">MU 111</a>, <a href="#">MU 112</a>, <a href="#">MU 113</a>; <a href="#">PHIL 101</a>, <a href="#">PHIL 102</a>, <a href="#">PHIL 105</a>, <a href="#">PHIL 107</a>, <a href="#">PHIL 140</a>, <a href="#">PHIL 147</a>, <a href="#">PHIL 151</a>, <a href="#">PHIL 160</a>, <a href="#">PHIL 260</a>; <a href="#">PSS 141</a>, <a href="#">PSS 142</a>, <a href="#">PSS 146</a>; <a href="#">REL 022</a>, <a href="#">REL 111</a>, <a href="#">REL 116</a>, <a href="#">REL 122</a>, <a href="#">REL 124</a>, <a href="#">REL 173</a>, <a href="#">REL 224</a>, <a href="#">REL 226</a>, <a href="#">REL 228</a>, <a href="#">REL 280</a>; <a href="#">SPAN 141</a>, <a href="#">SPAN 236</a>, <a href="#">SPAN 237</a>, <a href="#">SPAN 246</a>, <a href="#">SPAN 265</a>, <a href="#">SPAN 276</a>, <a href="#">SPAN 277</a>, <a href="#">SPAN 291</a>, <a href="#">SPAN 292</a>; <a href="#">THE 136</a>, <a href="#">THE 137</a>, <a href="#">THE 138</a>; <a href="#">WLIT 011</a>, <a href="#">WLIT 014</a>, <a href="#">WLIT 017</a>, <a href="#">WLIT 018</a>, <a href="#">WLIT 024</a>, <a href="#">WLIT 035</a>, <a href="#">WLIT 087</a>, <a href="#">WLIT 095</a>, <a href="#">WLIT 096</a>, <a href="#">WLIT 111</a>, <a href="#">WLIT 114</a>, <a href="#">WLIT 117</a>, <a href="#">WLIT 118</a>, <a href="#">WLIT 122</a>, <a href="#">WLIT 153</a>-<a href="#">WLIT 156</a>.</p>
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- C. European history and society: Twelve hours from the approved list to include six hours at the 100 level or above. [ANTH 151](#), [BSAD 236](#); [EC 113](#); [GEOG 055](#), [GEOG 155](#); [HST 013](#), [HST 014](#), [HST 019](#), [HST 021](#)-[HST 027](#), [HST 085](#), [HST 086](#), [HST 115](#), [HST 120](#)-[HST 136](#), [HST 139](#), [HST 185](#), [HST 186](#), [HST 190](#), [HST 191](#), [HST 221](#), [HST 222](#), [HST 224](#)-[HST 228](#), [HST 285](#); [POLS 171](#), [POLS 257](#), [POLS 276](#), [POLS 287](#).
- D. European language: Six hours of a European language other than English at or above the 100-level. Students who fulfill nine or more hours of their "Culture and Thought" requirement through the study of any one such language must fulfill this requirement in a second European language other than English.

Note: Other equivalent courses within each area may be accepted with permission of the Director of European Studies.

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## European Studies Course Offerings

The following courses are among the course offerings. Also see Area and International Studies for special topic listings.

- [AIS 291 - European Studies Seminar](#)
- [ANTH 151 - Anth of East Europe](#)
- [ART 005 - Western Art:Ancient - Medieval](#)
- [ART 006 - Western Art:Renaissance-Modern](#)
- [ART 148 - Greek Art](#)
- [ART 149 - Roman Art](#)
- [ART 155 - Topics in Medieval Art](#)
- [ART 158 - Northern European 1400 - 1600](#)
- [ART 161 - Italian Renaissance Painting](#)
- [ART 164 - Italian Renaissance Sculpture](#)
- [ART 165 - Topics European Art, 1600-1800](#)
- [ART 170 - Topics in Modern Art](#)
- [ART 172 - 19th Cent European Painting](#)
- [ART 174 - 20th Century Art](#)
- [ART 177 - 19th&20th Cent Arch & Design](#)
- [ART 179 - Issues in Contemporary Art \(\\*\)](#)
- [ART 282 - Seminar in Western Art \(\\*\)](#)
- [CLAS 024 - Myths/Legends Trojan War](#)
- [CLAS 035 - The End of the Roman Republic](#)
- [CLAS 037 - Early Roman Empire: Lit Trans](#)
- [CLAS 042 - Mythology](#)
- [CLAS 153 - Greek Drama](#)
- [CLAS 154 - Stories and Histories](#)
- [CLAS 155 - Ancient Epic](#)
- [CLAS 156 - Satiric Spirit](#)
- [CLAS 157 - Greek Feminism](#)

CLAS 158 - Greco-Roman Political Thought

- [EC 170 - Economic Methods](#)
- [ENGS 021 - British Literature](#)
- [ENGS 022 - British Literature](#)
- [ENGS 025 - World Literature](#)
- [ENGS 026 - World Literature](#)
- [ENGS 027 - Lit of Western Trad: Int Humn](#)
- [ENGS 028 - Lit of Western Trad: Int Humn](#)
- [ENGS 085 - Text&Context: 1st Yr Prosp Mjrs](#)
- [ENGS 086 - Critical Approaches to Lit](#)
- [ENGS 102 - History of the English Lang](#)
- [ENGS 133 - Chaucer](#)
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- [ENGS 135 - Shakespeare](#)
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- [ENGS 141 - Restoration & 18thC Literature](#)
- [ENGS 142 - 18th Century British Novel](#)
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- [ENGS 144 - Topics in Romanticism](#)
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- [ENGS 162 - 20th-Century Irish Literature](#)
- [ENGS 221 - Seminar in Literature to 1800](#)
- [ENGS 222 - Seminar in Literature to 1800](#)
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- [FILM 006 - Dev of Motion Picture II](#)
- [FILM 107 - Film Criticism](#)
- [FILM 161 - Contemporary Cinema](#)
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- [FREN 105 - French Culture](#)
- [FREN 235 - Medieval/Renaissance Studies](#)
- [FREN 247 - Power/Desire in Class Fr Drama](#)
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- [FREN 275 - Morality&ItsDiscontents-20C Lt](#)
- [FREN 276 - Topics in Modern French Lit](#)
- [GEOG 055 - Europe](#)
- [GEOG 155 - Historical Geography of Europe](#)
- [GERM 104 - German News Media](#)
- [GERM 121 - Culture & Civilization to 1900](#)
- [GERM 122 - 20th C Culture & Civilization](#)

- [GERM 155 - Survey of German Lit to 1830](#)
- [GERM 156 - Survey of German Lit from 1830](#)
- [GERM 201 - Methods Research&Bibliography](#)
- [GERM 213 - History of the German Language](#)
- [GERM 214 - Middle Ages](#)
- [GERM 225 - Goethe](#)
- [GERM 226 - Schiller](#)
- [GERM 237 - 19th Century Prose](#)
- [GERM 238 - 19th Century Drama](#)
- [GERM 247 - German Lit from 1890 to 1945](#)
- [GERM 248 - Contemporary German Literature](#)
- [GERM 251 - German Folkore](#)
- [GERM 252 - Faust](#)
- [GERM 263 - German Romanticism](#)
- [GERM 264 - German Lyric Poetry](#)
- [GERM 271 - Proverbs](#)
- [GERM 273 - German Intellectual Movements](#)
- [GERM 275 - Fin-de-Siecle](#)
- [GERM 276 - Brecht & the Modern Drama](#)
- [GERM 278 - GDR Fiction](#)
- [GERM 279 - German Short Story after 1945](#)
- [GERM 281 - Sem in Lit Genre,Period,Theme](#)
- [GERM 282 - Sem on Particular Author](#)
- [GRK \(all course above 100 level\)](#)
- [HST 013 - Ideas in the Western Tradition](#)
- [HST 014 - Ideas in the Western Tradition](#)
- [HST 022 - Classical Roman Civilization](#)
- [HST 023 - Birth of Europe](#)
- [HST 024 - High & Later Middle Ages](#)
- [HST 025 - European Civilization to 1815](#)
- [HST 026 - Europe 1815 - 1945](#)
- [HST 027 - Modern Eastern Europe](#)
- [HST 085 - History of Science](#)
- [HST 086 - History of Science](#)
- [HST 120 - Historical Geography of Europe](#)
- [HST 121 - History of Greece](#)
- [HST 122 - History of Rome](#)
- [HST 125 - The Renaissance](#)
- [HST 126 - The Reformation](#)
- [HST 128 - Eur Soc & Culture 1880-1920](#)
- [HST 130 - European Intellectual History](#)
- [HST 132 - Modern Irish History](#)
- [HST 136 - Topics in History of France](#)
- [HST 139 - Modern Germany](#)
- [HST 185 - Science & Culture](#)
- [HST 186 - The Scientific Revolution](#)

- [HST 190 - The Holocaust](#)
- [HST 191 - World War II](#)
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- [HST 222 - Seminar in Ancient History](#)
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- [HST 225 - Seminar in Early Modern Europe](#)
- [HST 226 - Seminar in Modern Europe](#)
- [HST 227 - Seminar in Modern Europe](#)
- [HST 228 - Seminar in Popular Culture](#)
- [HST 285 - Seminar in History of Science](#)
- [ITAL 121 - Issues in Italian Culture](#)
- [ITAL 122 - Italian Literature & Film](#)
- [ITAL 157 - Modern Italian Fictions](#)
- [ITAL 158 - Early Italian Lit in Context](#)
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- [PHIL 160 - Recent Continental Philosophy](#)
- [PHIL 260 - Topics in Continental Phil](#)
- [POLS 141 - History of Political Thought](#)
- [POLS 142 - History of Political Thought](#)
- [POLS 171 - Western European Political Sys](#)
- [POLS 257 - Pol of European Integration](#)
- [POLS 276 - British Politics](#)
- [REL 022 - Intro Rel:Western Traditions](#)
- [REL 111 - Western Religious Thought](#)
- [REL 116 - Judaism](#)
- [REL 122 - Christian Origins](#)
- [REL 124 - Christianity](#)
- [REL 173 - Studies in Gender & Religion](#)
- [REL 224 - Studies in Christianity](#)
- [REL 226 - Studies in Hellenistic Rel](#)
- [REL 228 - Studies in Western Rel Thought](#)
- [REL 280 - Symbol & Archetype](#)
- [SPAN 141 - Intro To Literature of Spain](#)
- [SPAN 236 - Poetic Voices/Cultural Change](#)
- [SPAN 237 - Issues in Early Spanish Lit](#)
- [SPAN 246 - Reading Cervantes](#)
- [SPAN 252 - Span Lit:Dictatorshp-Democracy](#)

- [SPAN 291 - Early Cultures of Spain](#)
- [SPAN 292 - Modern Cultures of Spain](#)
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- [WLIT 014 - Spanish Lit in Translation](#)
- [WLIT 017 - German Lit in Translation](#)
- [WLIT 018 - Russian Lit in Translation](#)
- [WLIT 024 - Myths & Legends of Trojan War](#)
- [WLIT 035 - The End of the Roman Republic](#)
- [WLIT 037 - Early Roman Emp:Lit&Translat'n](#)
- [WLIT 095 - Special Topics](#)
- [WLIT 096 - Special Topics](#)
- [WLIT 114 - Spanish Lit in Translation](#)
- [WLIT 117 - German Lit in Translation](#)
- [WLIT 118 - Russian Lit in Translation](#)
- [WLIT 153 - Greek Drama](#)
- [WLIT 154 - Stories and Histories](#)
- [WLIT 155 - Ancient Epic](#)
- [WLIT 156 - Greek & Roman Satiric Spirit](#)
- [WLIT 195 - Special Topics](#)
- [WLIT 196 - Special Topics](#)

(\*) When the content is European.



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## European Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours to include three hours at the 200 level from both European culture and thought and European history and society areas; and six hours at the 100 level or above from the European language area.

Note: See the [European Studies major](#) requirements for list of approved courses.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Latin American Studies (Bachelor of Arts)

### Overview

- [Latin American Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A. Twelve hours selected from the following five courses: [ANTH 161](#); [HST 062](#), [HST 063](#); [GEOG 056](#); [POLS 174](#).

Two additional semester courses selected from Area and International Studies: [AIS 193](#), [AIS 194](#), [AIS 195](#), [AIS 196](#), [AIS 197](#), [AIS 198](#); [HST 161](#), [HST 163](#), [HST 164](#), [HST 262](#); or from courses recommended by the Program of Latin American Studies.

B. Plus six hours of advanced Spanish ([SPAN 142](#), [SPAN 279](#), [SPAN 281](#), [SPAN 286](#), [SPAN 287](#), [SPAN 293](#), [SPAN 294](#)).

C. An additional 12 hours from related courses chosen in consultation with advisor.

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- Colleges and Schools: [College of Arts and Sciences](#).
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## Latin American Studies Course Offerings

The following courses are among the course offerings. Also see Area and International Studies for special topic listings.

- [ANTH 161 - Cultures of South America](#)
- [AIS 195 - Intermediate Special Topics](#)
- [AIS 196 - Intermediate Special Topics](#)
- [AIS 197 - Readings and Research](#)
- [AIS 198 - Readings and Research](#)
- [GEOG 056 - Latin America](#)
- [HST 062 - Colonial Latin American History](#)
- [HST 063 - Modern Latin American History](#)
- [HST 161 - Caribbean & Latin American History](#)
- [HST 163 - Early Caribbean History](#)
- [HST 164 - Modern Caribbean History: Cannons to Cricket](#)
- [HST 262 - Sem Caribbean & Latin Amer Hst](#)
- [POLS 174 - Latin American Politics](#)
- [SPAN 279 - Act Out:Perf Cult'l Pol Lat Am](#)
- [SPAN 281 - Contemp Spanish-Amer Fiction](#)
- [SPAN 286 - Writing Revolution-Latin Amer](#)
- [SPAN 287 - Early Span Narratives Americas](#)
- [SPAN 293 - Early-Latin American Cultures](#)
- [SPAN 294 - Modern Latin-American Cultures](#)

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## Latin American Studies (Undergraduate Minor)

### Specific Requirements

- A. Students who are not Spanish majors: 18 hours (six courses)
  1. Completion of Spanish 52 or above (three hours).
  2. Completion of five of the following courses: Anthropology 161; History 62 or 63, 161, 163, 164 or 262; Geography 56; Political Science 174; Spanish 142, 279, 281, 286, 287, 293, or 294; International Studies 195 or 196.
- B. Students who are Spanish majors: 18 hours (six courses)
  1. Completion of one of the following courses: Spanish 279, 281, 286, 287, 293, or 294.
  2. Completion of five of the following courses: Anthropology 161; History 62 or 63, 161, 163, 164 or 262; Geography 56; Political Science 174; International Studies 195 or 196.

### Affiliations

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## Middle East Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours (six courses) to include: Completion of the College language distribution option or the transfer of equivalent credits. Familiarity with an appropriate Middle East language, e.g. Hebrew, Arabic, Turkish, Farsi, etc., is strongly recommended; History 45; four courses taken from the following groupings, but no more than one course from Group B and no more than one course below the 100 level:

- Group A: Anthropology 166, 170; Art 146, 188; EC 180; GEOG 158; HST 123, HST 146, HST 149; REL 114, REL 116; POLS 157, POLS 259, POLS 279 (when the topic is Middle East).
- Group B: ENGL 172; GEOG 51; HST 40, HST 140; MATH 161.

### Affiliations

- Colleges and Schools: College of Arts and Sciences.
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## Russian/East European Studies (Bachelor of Arts)

### Overview

- [Russian and East European Studies Courses](#)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

1. 30 hours of required courses to include the following: Two courses from [HST 027](#), [HST 137](#), [HST 138](#); [ECON 116](#); [POLS 172](#); [WLIT 118](#); two courses at the 100 level or above in Russian; three additional courses in the major, chosen in consultation with an advisor in the major.
2. Recommended courses: [AIS 091](#).

The program also offers an interdisciplinary Individual Design Major in Russian/East European Studies and Business. The program of study must be planned with a member of the Russian/East European Studies faculty.

*Required courses (35 hours):* Two courses in Russian at the intermediate level; four courses in Economics including 116; one Russian/East European Area Studies course other than those in Economics; two courses in Business Administration; two approved electives at the 100 level or above.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).



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## Russian and East European Studies Course Offerings

The following courses are among the course offerings.

- [ANTH 151 - Anth of East Europe](#)
- [EC 011 - Principles of Macroeconomics](#)
- [EC 012 - Principles of Microeconomics](#)
- [HST 027 - Modern Eastern Europe](#)
- [HST 115 - History of Poland](#)
- [HST 137 - History of Russia](#)
- [HST 138 - History of the Soviet Union](#)
- [HST 237 - Seminar in Russia before 1917](#)
- [HST 238 - Seminar in Soviet History](#)
- [POLS 172 - Politics&Society in Russian Fed](#)
- [POLS 272 - Eastern European Pol Systems](#)
- [RUSS 052 - Intermediate Russian](#)
- [WLIT 018 - Russian Lit in Translation](#)
- [WLIT 118 - Russian Lit in Translation](#)



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## Russian/East European Studies (Undergraduate Minor)

### Specific Requirements

Twenty hours to include: Russian 51, 52 or its equivalent and four courses from the following: Economics 116; World Literature 118; History 27, 137, 138; Political Science 172.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Area and International Studies Program](#).

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## Courses in Area & International Studies

### AIS 007 - Directed Language Study

Credits: 3.

### AIS 008 - Directed Language Study

Credits: 3.

### AIS 009 - Directed Language Study

Credits: 3.

### AIS 010 - Directed Language Study

Credits: 3.

### AIS 091 - Introduction to Area

(A) Introduction to Canada: A team-taught introduction to Canada through interdisciplinary perspective. (B) Introduction to Russia and East Europe: An interdisciplinary overview from the perspectives of economics, fine arts, geography, history, political science, Russian language and literature, and sociology. (C) Introduction to Western Europe. Primarily designed for first-year students.

Credits: 3.

### AIS 093 - So Africa: Politic/Race&Culture

An interdisciplinary introduction analyzing the forces that led to creation of that system of government known as Apartheid. Assessment of strategies and tactics of change.

Credits: 3.

### AIS 095 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 1-3.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**AIS 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**AIS 191 - Internships**

Approved programs of learning outside the classroom. Internships must be undertaken directly in the field and involve activity in which substantive learning about the program area can take place.

Credits: 1-6.

**AIS 192 - Internships**

Approved programs of learning outside the classroom. Internships must be undertaken directly in the field and involve activity in which substantive learning about the program area can take place.

Credits: 1-6.

**AIS 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**AIS 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**AIS 197 - Readings & Research**

Credits: 1-3.

**AIS 198 - Readings & Research**

Credits: 1-3.

**AIS 291 - European Studies Seminar**

Multidisciplinary study of Europe as a geocultural area primarily for European Studies majors. Content will vary by instructor from departments including, for example, Classics, History, Political Science. Prerequisite: Permission of instructor.

Credits: 3.

**AIS 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: Permission by Executive Committee of International Studies. Other area courses offered by individual academic departments.

Credits: 1-3.

**AIS 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: Permission by Executive Committee of International Studies. Other area courses offered by individual academic departments.

Credits: 1-3.



**AIS 297 - Advanced Readings & Research**

Independent study of a specific area subject or theme with an approved instructor.

Prerequisites: Junior/senior standing, and permission of area Program Director.

Credits: 1-6.

**AIS 298 - Advanced Readings & Research**

Independent study of a specific area subject or theme with an approved instructor.

Prerequisites: Junior/senior standing, and permission of area Program Director.

Credits: 1-6.

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## Faculty for Area and International Studies Program

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## Art Department

### Contact Information

University of Vermont  
 Art Department  
 Williams Hall  
 72 University Place  
 Burlington, VT 05405-0168

Phone: (802) 656-2014  
 Fax: (802) 656-2064  
 Email: [Nadine.Carpenter@uvm.edu](mailto:Nadine.Carpenter@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## Art History (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty credits in Art History, including six credits from [ART 005](#), [ART 006](#) and [ART 008](#); 12 credits to include three credits from each of four different categories ([ART 196](#) courses in these categories also qualify): Ancient and Medieval ([ART 146](#), [ART 148](#), [ART 149](#), [ART 155](#)), Early Modern European ([ART 158](#), [ART 161](#), [ART 164](#), [ART 165](#)), Modern, American, and Canadian ([ART 170](#), [ART 172](#), [ART 174](#), [ART 177](#), [ART 180](#)), Asian ([ART 185](#), [ART 187](#), [ART 188](#), [ART 192](#)), Other Non-Western Traditions, New Approaches to Art History, and Contemporary Art ([ART 140](#), [ART 179](#), [ART 189](#), [ART 199](#)); 12 additional Art History credits, to include at least one course (three credits) numbered 282 or above to be taken during the junior or senior year, preferably during the senior year. Six credits of Studio Art; the study of a foreign language through 51-52. French or German is strongly recommended for students considering eventual graduate work in Art History.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Art History (Undergraduate Minor)

### Specific Requirements

Eighteen credits, including six credits from [ART 005](#), [ART 006](#), and [ART 008](#); 12 credits of 100-level courses or above.

### Affiliations

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## Art: Studio Art (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty credits in Studio Art, including nine credits in foundation courses (to include [ART 003](#) and two from [ART 001](#), [ART 002](#), [ART 004](#)) with three different instructors; 15 credits at the 100-level (only three of which may be [ART 197](#); six of which may be [ART 195](#)) with two different instructors, including courses in the areas of two-dimensional study (drawing, painting, printmaking, photography, film, and video) and of three-dimensional study (sculpture, ceramics, fine metals); and six credits at the 200-level, three of them in the senior year; nine hours of Art History, including two of the following: [ART 005](#), [ART 006](#), or [ART 008](#); and one of the following: [ART 140](#), [ART 170](#), [ART 172](#), [ART 174](#), [ART 177](#), [ART 179](#), [ART 180](#), and [ART 199](#) when approved for this requirement (permission depends upon topic; check with Art Department).

Note: A Studio Art major may not take more than one Evening Division course per semester in Studio Art.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Art: Studio Art (Undergraduate Minor)

### Specific Requirements

This minor is available only to students pursuing degree programs offered by the College of Arts and Sciences.

Eighteen credits, including six credits at introductory level of which at least three credits must be in [ART 001](#), [ART 002](#), [ART 003](#), or [ART 004](#). Twelve credits at the 100-level or above.

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## Courses in Art

### ART 001 - Drawing

Introductory study of visual experience through drawing and its transformation of the three-dimensional visual world onto a two-dimensional surface. Emphasis varies with instructor.

Credits: 3.

### ART 002 - Two-Dimensional Studies

A studio course exploring through classroom projects how we perceive space and how we work with materials and concepts to organize two-dimensional surfaces.

Credits: 3.

### ART 003 - Three-Dimensional Studies

Introductory study of the manipulation of actual space in diverse media. Emphasis varies with instructor.

Credits: 3.

### ART 004 - Intro to Film/Video Production

Introductory study of the principles and properties of four-dimensional media, including the mechanical and electronic phenomena behind the creation of a moving image.

Credits: 3.

### ART 005 - Western Art: Ancient - Medieval

Introduction to the visual arts, primarily painting, sculpture, and architecture in the Western world from prehistoric through Gothic.

Credits: 3.

### ART 006 - Western Art: Renaissance-Modern

Introduction to the visual arts, primarily painting, sculpture, and architecture in the Western world from Renaissance to present. Prerequisite: It is recommended that

Education  
ART 005 be taken before ART 006.  
Credits: 3.

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

**ART 008 - Asian Art**

Introduction to the artistic traditions and major architectural monuments of India, China, Japan, and Southeast Asia.  
Credits: 3.

**ART 011 - Introduction to Fine Metals**

Emphasizes design in the third dimension. Basic metal fabrication techniques, soldering, forming, forging, fusing, and casting. Drawing required. Fall semester only.  
Credits: 3.

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Policies and General  
Information

**ART 095 - Introduction to Special Topics**

See Schedule of Courses for specific titles.  
Credits: 1-4.

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Faculty and  
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**ART 096 - Introduction to Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.  
Credits: 1-3.

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**ART 111 - Fine Metals**

complex  
Credits: 0-3.

**ART 113 - Clay: Hand Building**

Investigation of surfaces and three-dimensional forms. Focus on variety of construction methods, surface treatment, and firing techniques. Related clay and glaze technology. Prerequisites: ART 001 or ART 002, and ART 003.  
Credits: 3.

**ART 114 - Clay: Wheel Throwing**

Development of throwing skills and the capacity to create a range of forms. Investigation of surface treatment techniques such as slip painting and glazing. Low-fire and stoneware firing. Related clay and glaze technology. Prerequisites: ART 001 or ART 002, and ART 003.  
Credits: 3.

**ART 115 - Intermediate Drawing**

Intense investigation of drawing and elements related to the discipline. The figure used to introduce drawing exercises dealing with contour, gesture, color, and compositional geometry. Prerequisite: ART 001 and ART 002.  
Credits: 3.

**ART 116 - Drawing From the Figure**

Drawing from the model, emphasizing in-depth studies in different media.  
Prerequisite: ART 001 and ART 002.

Credits: 3.

**ART 121 - Painting**

Painting as an investigation of color, space, and visual perception using traditional motifs and exploring individually developed directions. Prerequisites: 1 and 2.

Credits: 3.

**ART 131 - Printmaking: Etching**

Basic procedures in zinc plate printing, stressing design and technical control of aquatint, etching, drypoint and embossment. Prerequisites: ART 001 and ART 002. Offered alternate semesters. Credits 3.

Credits: 3.

**ART 132 - Printmaking: Silkscreen**

Basic procedures in stencil printing, stressing design and technical control of stencil cutting, glue and tusche resist and photo-silkscreening. Prerequisites: ART 001 and ART 002. Offered alternate semesters.

Credits: 3.

**ART 133 - Printmaking: Lithography**

Basic procedures in planographic printing from stone, stressing design and technical competence. Intensity of investigation varies with individual student. Prerequisites: ART 001 and ART 002.

Credits: 3.

**ART 137 - Photography**

Photographic processes as methods of seeing, emphasizing visual discovery through informed manipulation of materials relating to photographic realities.

Prerequisite: one of the following: ART 001, ART 002, ART 004.

Credits: 3.

**ART 138 - Color Photography**

Exploration of color films, cameras, and color printing processes as a means for recording, enhancing and expressing students' subjective experiences.

Prerequisite: one of the following: ART 001, ART 002, ART 004. Credits 3.

Credits: 3.

**ART 139 - Animation**

Techniques of single frame filmmaking, including drawing on film, producing a flipbook, animating a repetitive form, a two-dimensional sequence, and a three-dimensional sequence. Prerequisite: any two of the following: ART 001, ART 002, ART 003, ART 004.

Credits: 3.

**ART 140 - Hist of Optical Media as Art**

Theory and development of the art of "optical media:" photography, film, and video. Emphasis on discovery and explication of technical, aesthetic, and expressive properties. Prerequisite: one of the following: ART 006, FILM 005, FILM 006.

Credits: 3.

**ART 141 - Sculpture**

Exploration of manipulative materials. Prerequisite: ART 003.

Credits: 3.

**ART 142 - Art from Scraps**

Prerequisite: ART 002 and ART 003. Students explore in a series of projects how discarded objects and materials from everyday life, the "found object" tradition, can become materials for sculpture.

Credits: 3.

**ART 143 - Intermed Film/Video Production**

Exploration of the principles and properties of sound and moving image through projects in synchronous sound mediamaking and live studio production.

Prerequisite: ART 004 and either ART 001, ART 002, or ART 003, or instructor permission.

Credits: 3.

**ART 144 - Digital Art**

Exploration of the computer as an artistic medium, focusing on a variety of approaches for creating and displaying imagery. Prerequisite: ART 002.

Credits: 3.

**ART 145 - Graphic Design**

The application of graphic design principles to practical problems, including the impact of popular design on society, and the exploration of visual elements in contemporary printing processes. Prerequisite: ART 001 or ART 002.

Credits: 3.

**ART 146 - Egypt & the Ancient Near East**

The development of sculpture, painting, and architecture in Mesopotamia and Egypt 3000-300 B.C. Prerequisite: ART 005.

Credits: 3.

**ART 147 - Visual Environment**

Exploration of public spaces, structures, architectural detail, landscaping, roadways, lighting, etc. Field trips; meetings with planners and architects; projects.

Prerequisites: ART 001, ART 002, or ART 003.

Credits: 3.

**ART 148 - Greek Art**

Development of painting, sculpture, architecture, and related arts in Greek lands 3000-30 B.C. Prerequisite: ART 005.

Credits: 3.

**ART 149 - Roman Art**

Examination of the artistic experiments made by Roman painters, sculptors, and architects from 3rd century B.C. to 5th century A.D. Prerequisite: ART 005.

Credits: 3.

**ART 155 - Topics in Medieval Art**

Selected aspects of European art from the end of the Roman Empire through the Gothic period. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: ART 005.

Credits: 3.

**ART 158 - Northern European 1400-1600**

Netherlandish and German art of the period. Special attention to Jan van Eyck, Rogier van der Weyden, Hugo van der Goes, Durer, Bosch, and Bruegel.

Prerequisite: ART 005.

Credits: 3.

**ART 161 - Italian Renaissance Painting**

Painting in Italy from Gothic innovations of Giotto and Duccio through establishment of 15th-century Renaissance style to the High Renaissance works of Leonardo da Vinci, Raphael, Michelangelo and Titian. The development of Venetian painting. Prerequisite: ART 005.

Credits: 3.

**ART 164 - Italian Renaissance Sculpture**

Sculpture in Italy from its Gothic sources through the Renaissance. Special attention to Ghiberti, Donatello, and Michelangelo. Prerequisite: ART 005.

Credits: 3.

**ART 165 - Topics European Art 1600-1800**

Selected aspects of the painting, sculpture, and architecture of the Baroque, Rococo, and/or Neo-Classical periods. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: ART 006.

Credits: 3.

**ART 170 - Topics in Modern Art**

Selected aspects of the painting, sculpture, and architecture of Europe and North America during the 19th and 20th centuries. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: ART 006.

Credits: 3.

**ART 172 - 19th-Century European Painting**

Examination of major movements in European painting from Neo-Classicism and Romanticism through Post-Impressionism. Prerequisite: ART 006.

Credits: 3.

**ART 174 - 20th-Century Art**

A survey of movements and new media in European and American painting, sculpture, mixed media, performance, and the influences of film and photography on traditional media. Prerequisites: three hours of art history and preferably ART 172 or ART 181. Alternate years.

Credits: 3.

**ART 177 - 19th&20th Cent Arch & Design**

The theory and practice of building and design from the early 19th century to the recent past. Prerequisites: ART 006 or a course in Historic Preservation.

Credits: 3.

**ART 179 - Issues in Contemporary Art**

A study of selected examples of recent and current art and/or architecture. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: three hours of Art History.

Credits: 3.

**ART 180 - N. American Art 1600-1900**

Painting, sculpture, and architecture in the U.S. and Canada from colonial beginnings (Hispanic, Franco, Anglo) to WWI. Emphasis on the development of nationalist sensibilities as they emerge from European sources. Prerequisites: ART 006 or International Studies 91 (Canada).

Credits: 3.

**ART 185 - Japanese Art**

Architecture, sculpture, painting, prints, and decorative arts and their relationship to Japanese culture. Prerequisites: three hours in art history or one of the following Asian Studies courses: GEOG 058, HST 151, REL 021, REL 132, REL 141.

Alternate years.

Credits: 3.

**ART 187 - Chinese Painting**

History of Chinese painting, emphasizing the landscape painting of the 11th to 17th centuries. Prerequisite: Six hours in art history, three at the 100 level or instructor's permission. Alternate years.

Credits: 3.

**ART 188 - Indian Painting**

Mural, manuscript, and miniature painting from India from the 5th to 19th centuries. Topics to include: courtly and religious patronage and regional styles. Prerequisites: Three hours of art history or instructor's permission.

Credits: 3.

**ART 189 - Topics in Non-Western Art**

Selected aspects of the art of an area not covered in our regular European, American, and Asian courses. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: three hours in Art History.

Credits: 3.

**ART 190 - Internship:Art History**

Prerequisites: junior standing, six hours of 100-level course work in appropriate field, departmental permission (a contract must be obtained from and returned to

the Department of Art during preregistration).

Credits: 3.

**ART 191 - Internship: Field Experience**

Prerequisites: junior standing, six hours of 100-level courses in appropriate field, departmental permission (a contract must be obtained from and returned to the Department of Art during preregistration).

Credits: 3.

**ART 192 - Inter Spec Topics in Asian Art**

See Schedule of Courses for specific titles. Prerequisite: three hours in Art History or Asian Studies.

Credits: 3.

**ART 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Credits 1-4.

Credits: 0-4.

**ART 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**ART 197 - Rdgs & Rsch:Tutorial in Studio**

Independent/individual research in studio art. Prerequisites: junior standing, six hours of studio art courses at 100 level, departmental permission (a contract must be obtained from and returned to the Department of Art during preregistration).

Credits: 3.

**ART 198 - Readings & Research**

Prerequisite: departmental permission.

Credits: 3.

**ART 199 - Topics:Gender,Race,Ethn in Art**

Study of selected aspects of gender, "race," or ethnicity in art, and/or of the contributions of women or ethnically diverse people to the visual arts. Material and emphasis vary with instructor. May be repeated for credit with instructor's permission. Prerequisite: three hours in Art History.

Credits: 3.

**ART 201 - Arch, Landscape & History**

(See Historic Preservation 201.) Prerequisites: six hours advanced studies in art and architecture, permission. UG only.

Credits: 3.

**ART 213 - Advanced Ceramics**

Advanced investigations of methods exploring content, form, surface, and color of ceramics and elements related to the discipline. Prerequisite: ART 113 or ART

114.

Credits: 3.

**ART 215 - Advanced Drawing**

Intense investigation of drawing and elements that relate to that discipline. Emphasis on conceptual method, contemporary techniques, and both objective and non-objective source material. Prerequisite: ART 115 or ART 116.

Credits: 3.

**ART 221 - Advanced Painting**

Advanced explorations of painting emphasizing issues of scale, materials, and techniques both traditional and contemporary, and their relationship to both the discipline and current issues. Prerequisites: ART 121.

Credits: 3.

**ART 237 - Advanced Photography**

Continuation of 137, further exploring the implications of photography and encouraging students to use the medium to better understand their relationships to the world. Prerequisite: ART 137 or ART 138.

Credits: 3.

**ART 241 - Advanced Sculpture**

Advanced investigation of sculpture. Students work on individual projects under supervision of instructor. Periodic group discussion and analyses of work in progress. Prerequisite: ART 141.

Credits: 3.

**ART 244 - Advanced Digital Art**

Advanced exploration of the computer as an artistic medium for creating imagery. Focus on using the computer to animate images and integrate sound. Emphasis on conceptual issues in digital art. Prerequisite: ART 144.

Credits: 3.

**ART 281 - Advanced Studies in Studio Art**

Work in close consultation with faculty sponsor on a specific and advanced project. Prerequisites: senior standing, major or qualified minor in studio art, departmental permission (a contract must be obtained from and returned to the Department of Art during preregistration), six hours of 100-level courses in topic of contract.

Credits: 3.

**ART 282 - Seminar in Western Art**

specific offerings each semester. Prerequisites: six hours of 100-level Art History courses, including three hours in the area of the seminar; junior or senior standing. UG only.

Credits: 3.

**ART 283 - Advanced Seminar in Studio Art**

Advanced seminar for senior studio art majors covering a range of topics.



Prerequisites: senior standing, major in studio art, instructor's permission. (Not offered for graduate credit.)

Credits: 3.

**ART 285 - Seminar in Asian Art**

Prerequisites: One of the following: ART 008, ART 185, ART 187, ART 188, or ART 196 (Asian); three additional hours of 100-level courses either in art history or Asian Studies.

Credits: 3.

**ART 295 - Special Topics in Studio Art**

Advanced work in existing departmental offerings. Prerequisite: instructor's permission only. UG only.

Credits: 3.

**ART 296 - Adv Special Topics:Art History**

See Schedule of Courses for specific titles.

Credits: 3.

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## Biochemistry Program

### Contact Information

University of Vermont  
 Undergraduate Biochemistry Program  
 Department of Chemistry  
 Cook Physical Sciences Building  
 82 University Place  
 Burlington, VT 05405-0125

Phone: (802) 656-2594

Fax: (802) 656-8705

Email: [Christopher.Landry@uvm.edu](mailto:Christopher.Landry@uvm.edu)

[Web Site](#)

### Overview

Biochemistry is the basic science that explores the chemical and physical properties of living organisms and the chemical changes that occur in these organisms. It is integral to the study of a variety of scientific disciplines, including biology, chemistry, microbiology, genetics, anatomy, physiology, and pharmacology. The Bachelor of Science degree in Biochemistry is an interdisciplinary undergraduate degree program offered through the College of Arts and Sciences (CAS), the College of Agriculture and Life Sciences (CAL S) and the College of Medicine (COM). It draws upon a broad set of University resources from all three colleges to provide students with a modern science-based education designed to emphasize fundamental knowledge of chemistry and biology along with advanced courses specializing in biochemistry and biomedical sciences. The Biochemistry curriculum is challenging, offering students with strong academic abilities in science an opportunity to explore upper-level courses in areas of modern biochemistry. It is designed to meet the needs of students wishing to compete in the job market at the

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Education

B.S. degree level as well as students planning to continue with advanced studies in a graduate or professional degree program.

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

Students may apply to the program either through CAS or CALS, which vary in their college distribution requirements. The distribution categories and the number of required courses in each category differ slightly. In CAS, students are required to fulfill distribution requirements in six of the following seven categories: foreign languages, fine arts, literature, humanities, social sciences, physical sciences and mathematics, plus complete the general requirements in non-European cultures and race relations and ethnicity in the U.S. In CALS, students are required to fulfill distribution requirements in science, humanities and fine arts, communication skills, information technology skills, quantitative skills, critical thinking skills, interpersonal skills, citizenship & social responsibility values, environmental stewardship values, and personal growth values.

Policies and General Information

Regardless of the College through which students choose to apply, all students must take a core set of basic courses in chemistry, biology, and mathematics in their first two years followed by advanced courses in biochemistry, chemistry, and/or molecular biology in their third and fourth years. Since biochemistry is a "hands-on" science, involvement of students in undergraduate research projects, most of which qualify as honors projects in either College, is strongly encouraged. For more information contact either of the co-directors of the program: Christopher Landry ([Christopher.Landry@uvm.edu](mailto:Christopher.Landry@uvm.edu)) or Christopher Francklyn ([Christopher.Francklyn@uvm.edu](mailto:Christopher.Francklyn@uvm.edu)).

Faculty and Administration

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## Biochemistry (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Biochemistry core requires satisfactory completion of [BIOL 001/BIOL 002](#) or [BCOR 011/BCOR 012](#) (Introductory Biology); [MATH 021/MATH 022](#) (Calculus); [PHYS 031/PHYS 042](#) with [PHYS 021/PHYS 022](#) (Physics); [CHEM 035/CHEM 036](#) (Introductory Chemistry); [CHEM 143/CHEM 144](#) (Organic Chemistry); [CHEM 162](#) (Thermodynamics); [BIOC/CHEM/MMG 205](#) (Biochemistry I); [BIOC/CHEM/MMG 206](#) (Biochemistry II); [BIOC/CHEM/MMG 207](#) (Biochemistry Lab); [CHEM 221](#) (Instrumental Analysis); [CHEM 282](#) (Senior Thesis); [BCOR 101](#) (Genetics); [BCOR 103](#) (Cell Biology); and advanced biochemistry electives.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).
- Departments and Programs: [Biochemistry Program](#).

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## Courses in Biochemistry

### BIOC 191 - Undergraduate Research

Participation in a research program currently being pursued by a faculty member of department. Written report due at 35, 36. Some programs may require additional courses in chemistry. Credit as arranged, up to four hours per semester. Credits: 1-4.

### BIOC 192 - Undergraduate Research

Participation in a research program currently being pursued by a faculty member of department. Written report due at end of each semester. Prerequisites: Chemistry 31, 32 or 35, 36. Some programs may require additional courses in chemistry. Credit as arranged, up to four hours per semester. Credits: 1-4.

### BIOC 196 - Intermediate Special Topics

Credits: 1-6.

### BIOC 205 - Biochemistry I

Introduction to chemistry and structure of biological macromolecules; examination of mechanisms. Credits: 3.

### BIOC 206 - Biochemistry II

Continuation of Biochemistry I. Biochemistry of nucleic acids; nucleic acid based processes, such as replication and transcription; cellular Prerequisite: 205. Crosslisted with CHEM 206 and MMG 206. information transfer, genomics, and proteomics. UG only. Credits: 3.

### BIOC 207 - Biochemistry Lab

with CHEM 207 and MMG 207. UG only. Introduction to biochemical tools,

Education including spectrometry, chromatography, and electrophoresis; DNA-modifying enzymes; computer-based structure/function exercises. Corequisites: 205 or 206.  
• Graduate College Crosslisted natural and recombinant enzyme isolation; assays of  
• Honors College Credits: 2.

**BIOC 212 - Biochemistry of Human Disease**  
Molecular approach to genetic, metabolic, and infectious diseases; recombinant DNA technology and medicine; 141.  
Credits: 3.

**BIOC 240 - Macromol Struct Prot&Nucl Acid**  
Introduction to structural biology and macromolecular structure with an emphasis on protein-protein and protein-nucleic acids interactions. Prerequisites: Biology 1,2; Organic Chemistry; Junior standing recommended; (Crosslisted with MMG 240) Alternate years; not approved for graduate credit.  
Credits: 3.

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**BIOC 301 - General Biochemistry**  
Survey for science majors. Chemistry, structure, metabolism, and function of proteins, carbohydrates, lipids; enzymes, bioenergetics and respiratory processes. Prerequisites: Chemistry 141, 142 or 143, 144, and departmental permission.  
Credits: 3.

**BIOC 302 - General Biochemistry**  
Survey for science majors. Amino acids, nucleic acids, protein synthesis, cellular and physiological control mechanisms. Prerequisites: Chemistry 141, 142 or 143, 144, and departmental permission.  
Credits: 3.

**BIOC 305 - Medical Biochemistry**  
A survey course in human biochemistry, with particular emphasis on medical applications. Prerequisite: For medical students only.  
Credits: 3.

**BIOC 306 - Medical Biochemistry**  
A survey course in human biochemistry, with particular emphasis on medical applications. Prerequisite: For medical students only.  
Credits: 3.

**BIOC 307 - Special Topics in Biochemistry**  
Areas of biochemistry not treated in concurrent advanced course offerings. Prerequisites: 301, 302 or 305-306; Chemistry 162.  
Credits: 1-3.

**BIOC 308 - Special Topics**  
Areas of biochemistry not treated in concurrent advanced course offerings. Prerequisites: 301, 302 or 305-306; Chemistry 162.  
Credits: 1-3.



**BIOC 309 - Laboratory Research Rotations**

Two sequential research projects in departmental faculty laboratories, composed of experimental work, an oral presentation, and a written report. (First semester).

Credits: 3.

**BIOC 310 - Laboratory Research Rotations**

presentation and a written report. (Second semester). faculty laboratories, composed of experimental work, an oral

Credits: 3.

**BIOC 351 - Proteins I: Structure&Function**

Special Topics: Introduction to concepts in protein structure and chemistry as well as exploration of ideas in a "hands on" fashion using computational resources.

Credits: 3.

**BIOC 352 - Protein:Nucleic Acid Interact**

Structure of DNA and RNA, and the structure and assembly of nucleoprotein complexes will be described using examples from prokaryotes, yeast, viruses, and mammalian cells in culture. Prerequisites: MMG 211 or equivalent, AGBI 201 or BIOC 301 and 302 or equivalent. Crosslisting: MMG 352. Alternate years.

Credits: 3.

**BIOC 353 - Proteins II: Enzymology**

General consideration of enzyme nomenclature, purification, assay, kinetics, mechanisms, cofactors, active sites, subunit structure, allosteric and regulatory properties, and control of multienzyme systems. Prerequisites: 301, 302, or 305-306; Chemistry 162.

Credits: 3.

**BIOC 354 - Nucleic Acids II**

The study of structure, composition, organization, function, synthesis, and metabolism of nucleic acids and nucleoprotein particles and matrices in eukaryotic organisms. Prerequisites: 301-302, 305-306.

Credits: 3.

**BIOC 370 - Physical Biochemistry**

related topics. Prerequisites: 301, 302 or 306; Chemistry 160 or 162.

Credits: 3.

**BIOC 372 - Cancer Biology**

Prerequisites: 301-302 or 305-306; under special circumstances , 212.

Credits: 3.

**BIOC 381 - Seminar**

A review of recent developments and current literature in the various fields of biochemistry. Prerequisite: Department permission.

Credits: 1.

**BIOC 391 - Master's Thesis Research**

Credit as arranged.

Credits: 1-12.

**BIOC 392 - Independent Literature Rsch**

Reading and literature research culminating in a paper on a topic of current interest in biochemistry.

Credits: 1-12.

**BIOC 395 - Special Topics**

Credits: 1-12.

**BIOC 396 - Advanced Special Topics**

Credits: 1-12.

**BIOC 491 - Doctoral Dissertation Research**

Credit as arranged.

Credits: 1-12.

[Location]

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## Faculty for Biochemistry Program

Christopher Lewis Berger

Assistant Professor of Biochemistry

Associate Professor of Molecular Physiology and Biophysics

Director of COM Graduate Education

Appointed in [1994](#)

[Biochemistry Program](#)

[Dean's Office, College of Medicine](#)

[Molecular Physiology and Biophysics Department](#)

[Neuroscience Graduate Program](#)

BA 1986 [Lawrence University](#)

PHD 1991 [University of Minnesota Twin Cities](#)

[Search Courses for Christopher Berger](#)

Robert John Kelm

Associate Professor of Biochemistry

Associate Professor of Medicine - Vascular Biology

Appointed in [2001](#)

[Biochemistry Program](#)

[Vascular Biology, College of Medicine](#)

BA 1986 [Temple University](#)

PHD 1991 [University of Vermont](#)

[Search Courses for Robert Kelm](#)

Russell P. Tracy

Associate Director of the Center for Clinical and Translational Science

Professor of Biochemistry

Professor of Pathology

- Education                      Appointed in [1984](#)
- Graduate College            [Biochemistry Program](#)  
[Center for Clinical and Translational Science](#)
  - Honors College                [Pathology - General, College of Medicine](#)  
BS 1971 [Le Moyne College](#)
  - School of Business            PHD 1978 [Syracuse University](#)  
Administration                [Search Courses for Russell Tracy](#)
  
  - The Rubenstein  
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Mathematics
- College of  
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and Health  
Sciences
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## Biological Science

### Contact Information

*University of Vermont  
Biological Science  
Marsh Life Science Building  
Burlington, VT 05405*

Phone: (802) 656-5801

Fax: (802) 656-2914

Email: [IntegratedBioSci@uvm.edu](mailto:IntegratedBioSci@uvm.edu)

[Web Site](#)

### Overview

Biology is the study of life. Students can choose to pursue a Bachelor of Science in biological science, or a Bachelor of Arts in [Biology](#). As a biological science BS major, students will explore life from the workings of single cells to whole organisms. Students begin their studies with courses that provide a strong base in introductory biology, chemistry and mathematics. They proceed to a core of intermediate-level courses that include genetics, ecology and evolution, and cell and molecular biology. To meet their elective requirements, students have access to the rich array of advanced life sciences courses available across the university. The biological science degree offers students the opportunity to do collaborative research with faculty drawn from across the university, including the highly regarded College of Medicine. Students may choose from a broad range of research opportunities and internships, some as early as the first year of study.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).

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- [Biological Science, Integrated \(B.S.\)](#)

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## Biological Science, Integrated (Bachelor of Science)

### Overview

Students can choose to pursue a Bachelor of Science in Biological Science through the College of Arts and Science (CAS) or through the College of Agriculture and Life Sciences (CALs). The courses that comprise the biological science major are identical for students in either college, but the colleges differ in their general distribution requirements. In CAS, students are required to fulfill distribution requirement by completing six courses from at least two of the following categories: foreign languages, fine arts, literature, humanities, social sciences, physical sciences and mathematics. In CALs, students are required to fulfill distribution requirements by completing seven courses including two in social science, two in humanities and fine arts, and courses in oral and written communication, and information technology. A course exploring race relations and ethnicity in the United States is also required by both colleges.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Integrated Biological Science B.S. core requires satisfactory completion of [BCOR 11/BCOR 12](#) - Exploring Biology, [BCOR 101](#) - Genetics, [BCOR 102](#) - Ecology and Evolution, [BCOR 103](#) - Molecular and Cell Biology; [CHEM 31/CHEM 32](#), [CHEM 141/CHEM 142](#); [PHYS 11/PHYS 12](#) or [PHYS 31/PHYS 42](#) (either sequence must include laboratory sections [PHYS 21](#) and [PHYS 22](#)); [MATH 19/MATH 20](#) or [MATH 21/MATH 22](#); [STAT 141](#) or [STAT 211](#).

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

In consultation with their academic advisor, students will design a course of study that includes an additional 26 credit hours of advanced life-science electives. From the advanced-level electives, students must complete 12 credits from courses with a statistical component, 3 credits that stress oral communication and 3 credits that stress written communication. Consult the Integrated Biological Science advisors for a list of approved advanced courses including those that fulfill the statistical, oral and written communication requirements.

Within the advanced-level elective courses students must complete a minimum of 18 credits at the 200-level and, excluding the BCOR courses, no more than 8 credits at the 100-level may be applied to the major. With advisor's permission, biologically relevant 300-level courses may be applied towards the 200-level course requirement.

## Policies and General Information

Up to 6 credits of undergraduate research in any biological disciplines may be applied toward the 26 credits of advanced electives, at least three of which must be taken at the 200-level.

## Faculty and Administration

In year 2, all students are expected to meet with their advisor to map a plan of study for completing their higher-level courses. The plan will be signed by both the advisor and student and will become a part of the student's record.

## Catalogue Archives

Students majoring in the B.S. program in Biological Science are required to take at least 84 credit hours of coursework in the College of Arts and Sciences. This does not apply to CALS students.

## Affiliations

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- Departments and Programs:[Biology Department](#).[Biological Science](#).

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## Courses offered by the Biological Science

### Courses in BioCore

#### BCOR 011 - Exploring Biology

Exploring biology from cells to organisms. Topics include origins of life, ancestral organisms, uni- and multi- cellular energetics, evolution of respiration and metabolism, and the genetic code. Credit not given for both BCOR 011 and BIOL 001. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031 or CHEM 032.  
Credits: 4.

#### BCOR 012 - Exploring Biology

An evolutionary perspective to exploring biology. Topics include: patterns of inheritance, Darwinian evolution, evolution of biodiversity, ecology of organisms, human effects on biological systems. Credit not given for both BCOR 012 and BIOL 002. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031 or CHEM 032.  
Credits: 4.

#### BCOR 101 - Genetics

The basis of inheritance, covering topics from classical genetics to modern molecular studies. Analysis of genetic data emphasized, from prokaryotic, animal, and plant systems. Pre/co-requisites: Biol 1,2 or BCOR 11,12, Chemistry 31,32, organic chemistry recommended.  
Credits: 3.

#### BCOR 102 - Ecology and Evolution

Ecosystem and community structure; population growth; species interactions and niche dynamics; population and chromosomal genetics; speciation in fossil records; ecology of animal behavior; applied ecology. Pre/co-requisites: Biol 1,2 or

Education BCOR 11,12, Math 19 or 21.  
Credits: 4.

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### **BCOR 103 - Molecular and Cell Biology**

Explores the fundamental processes of life. Topics include cellular metabolism; structure and function of organelles; cell cycle; signal transduction; biology of cancer. Pre/co-requisites: Biol 1,2 or BCOR 11,12, Chemistry 31, 32 (Chemistry 141, BCOR 101 recommended).

Credits: 4.

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## Courses in Biological Sciences

### **BSCI 195 - Biological Sciences Seminar**

Presentations and discussion of selected topics by students, staff, and invited guests. Suggested attendance for all First-Year and transfer students in Biological Science for one semester.

Credits: 1.

### **BSCI 196 - Biological Sciences Seminar**

Presentations and discussion of selected topics by students, staff, and invited guests. Suggested attendance for all First-Year and transfer students in Biological Science for one semester.

Credits: 1.

### **BSCI 197 - Undergrad Research**

Special study and research activity under direction of qualified staff member. Requires written proposal and final project report. Prerequisite: Research advisor and Department Chair permission. Credit as approved with maximum of six hours for undergraduate program.

Credits: 1-6.

### **BSCI 198 - Undergrad Research**

Special study and research activity under direction of qualified staff member. Requires written proposal and final project report. Prerequisite: Research advisor and Department Chair permission. Credit as approved with maximum of six hours for undergraduate program.

Credits: 1-6.

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## Faculty for Biological Science

Cynthia Jean Forehand

Interim Dean of Graduate College

Professor of Biology

Professor of Neurological Sciences

Appointed in [1987](#)

[Biological Science](#)

[Graduate College](#)

[Neurological Sciences](#)

[Neuroscience Graduate Program](#)

BS 1975 [University of Nebraska Lincoln](#)

PHD 1981 [University of North Carolina Chapel Hill](#)

[Search Courses for Cynthia Forehand](#)

Donald Arthur Stratton

Co-Director of Integrated Biological Science

Senior Lecturer of Plant Biology

Appointed in [1998](#)

[Biological Science](#)

[Plant Biology Department](#)

BA 1981 [Earlham College](#)

PHD 1988 [SUNY Stony Brook](#)

[Search Courses for Donald Stratton](#)

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## Biology Department

### Contact Information

University of Vermont  
 Biology Department  
 Marsh Life Science Building, Room 120A  
 109 Carrigan Drive  
 Burlington, VT 05405-0086

Phone: (802) 656-2922  
 Fax: (802) 656-2914  
 Email: [Biology@uvm.edu](mailto:Biology@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## Biological Science, Integrated (Bachelor of Science)

### Overview

Students can choose to pursue a Bachelor of Science in Biological Science through the College of Arts and Science (CAS) or through the College of Agriculture and Life Sciences (CALs). The courses that comprise the biological science major are identical for students in either college, but the colleges differ in their general distribution requirements. In CAS, students are required to fulfill distribution requirement by completing six courses from at least two of the following categories: foreign languages, fine arts, literature, humanities, social sciences, physical sciences and mathematics. In CALs, students are required to fulfill distribution requirements by completing seven courses including two in social science, two in humanities and fine arts, and courses in oral and written communication, and information technology. A course exploring race relations and ethnicity in the United States is also required by both colleges.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Integrated Biological Science B.S. core requires satisfactory completion of [BCOR 11/BCOR 12](#) - Exploring Biology, [BCOR 101](#) - Genetics, [BCOR 102](#) - Ecology and Evolution, [BCOR 103](#) - Molecular and Cell Biology; [CHEM 31/CHEM 32](#), [CHEM 141/CHEM 142](#); [PHYS 11/PHYS 12](#) or [PHYS 31/PHYS 42](#) (either sequence must include laboratory sections [PHYS 21](#) and [PHYS 22](#)); [MATH 19/MATH 20](#) or [MATH 21/MATH 22](#); [STAT 141](#) or [STAT 211](#).

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

In consultation with their academic advisor, students will design a course of study that includes an additional 26 credit hours of advanced life-science electives. From the advanced-level electives, students must complete 12 credits from courses with a statistical component, 3 credits that stress oral communication and 3 credits that stress written communication. Consult the Integrated Biological Science advisors for a list of approved advanced courses including those that fulfill the statistical, oral and written communication requirements.

Within the advanced-level elective courses students must complete a minimum of 18 credits at the 200-level and, excluding the BCOR courses, no more than 8 credits at the 100-level may be applied to the major. With advisor's permission, biologically relevant 300-level courses may be applied towards the 200-level course requirement.

## Policies and General Information

Up to 6 credits of undergraduate research in any biological disciplines may be applied toward the 26 credits of advanced electives, at least three of which must be taken at the 200-level.

## Faculty and Administration

In year 2, all students are expected to meet with their advisor to map a plan of study for completing their higher-level courses. The plan will be signed by both the advisor and student and will become a part of the student's record.

## Catalogue Archives

Students majoring in the B.S. program in Biological Science are required to take at least 84 credit hours of coursework in the College of Arts and Sciences. This does not apply to CALS students.

## Affiliations

- Colleges and Schools:[College of Agriculture and Life Sciences](#).[College of Arts and Sciences](#).
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## Biology (Bachelor of Arts)

### Overview

The B.A. in Biology degree offers concentrations in the following areas:

- **Cell and Molecular Biology** serves students with interests in cell, molecular and developmental biology.
- **Environmental Biology** is appropriate for students with interests in ecology, evolution, conservation biology or animal behavior.
- **Forensic Biology** is appropriate for students wishing to explore the fast growing discipline of criminal forensics and prepares students for government positions and for entry into graduate programs.
- **General Biology** serves students who wish a very broad training in life science, including zoology.
- **Neurobiology** focuses on molecular and cellular aspects of the nervous system. Funding from the Howard Hughes Medical Institute allows students to take courses offered by faculty of three departments.
- **Professional Biology** is appropriate for students with interests in the medical, veterinary, dental and allied health fields.

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 031/ CHEM 032](#) or [CHEM 35/CHEM 036](#) to be taken the first year if possible; [CHEM 141/CHEM 142](#); [PHYS 011](#) or [PHYS 031](#) in combination with [PHYS 021](#) (and [PHYS 012](#) or [PHYS 042](#) in combination with [PHYS 022](#) recommended); [MATH 019/](#)



- Education [MATH 020](#); or [MATH 021](#)/ [MATH 022](#). Thirty-three hours of biology including introductory biology ([BCOR 011](#), [BCOR 012](#), or [BIOL 001B](#), [BIOL 002B](#) is preferred, but [BIOL 001A](#), [BIOL 002A](#) is accepted); [BCOR 101](#), [BCOR 102](#), [BCOR 103](#); [BIOL 255](#), and three additional 200-level courses in one of several concentrations (including at least one with a laboratory). A list of courses in each concentration is provided below. One course may be taken from outside the Department from approved offerings from other biologically-oriented departments. For a list of approved offerings in other departments, consult the Biology Department Office. Neither College honors nor [BIOL 297/BIOL 297](#) will count toward the 200 level course requirement.
  - Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources
- NOTE: Most professional schools (e.g. medicine, dentistry, veterinary, physical therapy) require the equivalent of [PHYS 012](#) or [PHYS 042](#) in combination with [PHYS 022](#).

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### Cell and Molecular Biology

Students may choose from: [BIOL 205](#), [BIOL 212](#), [BIOL 223](#), [BIOL 231](#), [BIOL 263](#), [BIOL 265](#), [BIOL 267](#), [HON 208](#) and [HON 209](#). In addition, students may take approved courses offered by other biologically-oriented departments.

### Environmental Biology

[BCOR 102](#) is required of all biology majors. Other recommended courses in this concentration include, but are not restricted to: [BIOL 203](#), [BIOL 206](#), [BIOL 208](#), [BIOL 217](#), [BIOL 238](#), [BIOL 246](#), [BIOL 254](#), [BIOL 255](#), [BIOL 264](#), [BIOL 270](#) and [BIOL 295](#).

### Forensic Biology

[BIOL 288](#) (a one-credit forensic biology seminar) and [CHEM 121](#). Students should also take three courses from [BIOL 205](#), [BIOL 209](#), [BIOL 212](#), [BIOL 254](#), [BIOL 268](#), [BIOL 296](#) (self-designed genetics laboratory), [PHRM 272](#).

### General Biology

After consultation with their biology department faculty advisor, students take a variety of courses drawn from the approximately three dozen offered by the biology department or from other approved courses in life science.

### Neurobiology

Three courses are the core, [BIOL 261](#), [BIOL 262](#) and [PSYC 221](#). Students may also take [ANNB 202](#), [PHRM 290](#), [PSYC 121](#), [PSYC 220](#) and [PSYC 223](#), as well as other advanced courses in cell and molecular biology.

### Professional Biology

[BIOL 205](#), [BIOL 212](#), [BIOL 217](#), [BIOL 219](#), [BIOL 223](#), [BIOL 246](#), [BIOL 254](#), [BIOL 265](#), [BIOL 295](#), [HON 208](#) and [HON 209](#). In addition, students may take approved courses offered by other biologically-oriented departments.

## Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Biology Department](#).

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## Biology (Undergraduate Minor)

### Specific Requirements

BCOR 011/BCOR 012 or BIOL 001/BIOL 002; three courses at the 100-level or higher chosen from courses acceptable for the biology major, at least one of which must include a laboratory. One course may be taken from the advanced offerings of other biologically-oriented departments. Consult the biology department for a list of approved courses.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
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- Continuing

## Environmental Sciences [CAS] (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 042](#) or [CHEM 141\\*](#) or [CHEM 143\\*](#); [GEOL 055\\*\\*](#) or [PSS 161](#); [STAT 141](#) or [STAT 211](#) or [NR 140](#); [ENSC 001](#), [ENSC 101](#), [ENSC 130](#); [BCOR 102\\*\\*\\*](#) or [CHEM 142\\*\\*\\*\\*](#) (or [CHEM 144](#))\*\*\*\* or [GEOL 110\\*\\*](#); and 14-17 credits of advanced coursework, chosen in consultation with your advisor, in one of the following Focus Tracks: Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources. Up-to-date course requirements for each Focus Track are available from your advisor or the Dean's Office; students may elect to petition to develop a self-design track.

Also: [BCOR 011](#) and [BCOR 012](#); [CHEM 031](#) and [CHEM 032](#) (or [CHEM 035](#) and [CHEM 036](#)); [MATH 19](#) and [MATH 20](#) (or [MATH 21](#) and [MATH 22](#) ); [PHYS 011](#) and [PHYS 012](#) (or [PHYS 031](#) and [PHYS 042](#)) - Physics is required only for the Environmental Chemistry Focus Track.

College of Arts and Sciences students majoring in the B.S. program in Environmental Sciences are required to take at least 84 credit hours of coursework in the College of Arts and Sciences.

\*Required for Environmental Biology and Environmental Chemistry Focus Tracks.

\*\*Required for Environmental Geology Focus Track.

Education \*\*\*Required for Environmental Biology Focus Track.

• Graduate College \*\*\*\*Required for Environmental Chemistry Focus Track.

• Honors College

### Affiliations

• School of Business Administration

• Colleges and Schools:[College of Arts and Sciences](#).[College of Agriculture and Life Sciences](#).[The Rubenstein School of Environment and Natural Resources](#).

• The Rubenstein School of Environment and Natural Resources

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## Environmental Sciences: Biology (Undergraduate Minor)

### Specific Requirements

[BIOL 001/BIOL 002](#) or [BCOR 011/BCOR 012](#); [BCOR 102](#), and two additional upper-division non-biology courses chosen in consultation with co-advisor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Zoology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 031/CHEM 032](#) or [CHEM 035/CHEM 036](#), to be taken the first year if possible; [CHEM 141/CHEM 142](#); [MATH 019](#) (or higher), plus at least six additional credits in quantitative disciplines from among Mathematics ([MATH 020](#) or higher), Physics ([PHYS 011](#) or higher), or Statistics ([STAT 141](#) or higher). [BCOR 011/BCOR 012](#), (preferred, but [BIOL 001/BIOL 002](#) is accepted), [BCOR 101](#), and either [BCOR 102](#) or [BCOR 103](#), and at least fifteen additional credits in Biology from [BCOR 102](#) or [BCOR 103](#) (whichever was not taken above) or 200-level courses. Students preparing for entry into professional schools, such as veterinary or human medicine or dentistry, should consult with their department advisor to select the proper sequence of electives.

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## Zoology (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 031/CHEM 032](#) or [CHEM 035/CHEM 036](#), to be taken the first year if possible; [CHEM 141/CHEM 142](#); [MATH 019](#) (or higher), and at least fifteen credits in quantitative disciplines from among Mathematics ([MATH 020](#) or higher), Physics ([PHYS 011](#) or higher), or Statistics (at least one course is required from [STAT 141](#) or higher). [BCOR 011/BCOR 012](#) (preferred, but [BIOL 001/BIOL 002](#) is accepted), [BCOR 101](#), and either [BCOR 102](#) or [BCOR 103](#), and at least twenty-seven additional credits in zoology or related fields from the approved list available from the Biology Department office or department advisors. Students preparing for entry into professional schools, such as veterinary or human medicine or dentistry, should consult with their department advisor to select the proper sequences of electives.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Biology Department](#).

[\[Location\]](#)



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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Biology Department > Academic Offerings > Zoology (Minor)

## Zoology (Undergraduate Minor)

### Specific Requirements

BCOR 011/BCOR 012 or BIOL 001/BIOL 002; three courses at the 100-level or above, chosen from courses within the biology department, at least one of which must include a laboratory.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
- Departments and Programs:Biology Department.

[Location]

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## Courses in Biology

### BIOL 001 - Principles of Biology

and evolution. Topics presented: biochemistry; metabolism, cell structure and function; respiration; photosynthesis; molecular, Mendelian and population genetics; microevolution. Credit not given for both 1 and BCOR 11.

Credits: 4.

### BIOL 002 - Principles of Biology

Principles of organismal biology; nature of scientific inquiry, plant form and function, pollination ecology, animal phylogeny illustrated by comparative anatomy and physiology; animal behavior. Credit not given for both BIOL 002 and BCOR 012.

Credits: 4.

### BIOL 003 - Human Biology

For nonscience majors. Selected biological topics relevant to humans, such as cancer, human genetics, environmental toxicants; biological concepts necessary for understanding these problems.

Credits: 3.

### BIOL 004 - The Human Body

Introduction to basic human anatomy and organ system physiology emphasizing normal homeostatic mechanisms and the changes that accompany common disorders and diseases. For nonscience majors.

Credits: 3.

### BIOL 006 - Evolutionary Biology

For nonscience majors. The process of biological evolution, evidence for evolution, mechanisms of evolutionary change, origin of adaptations, evolution of behavior, social and reproductive behavior.

Credits: 3.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**BIOL 009 - Science As a Way of Knowing**

History of scientific method and its application to generation of knowledge. How science seeks to understand the origin and diversity of life. Lab research project.  
Credits: 3.

**BIOL 011 - See BCOR 011**

Credits: 0.

**BIOL 012 - See BCOR 012**

Credits: 0.

**BIOL 095 - Special Topics**

See Schedule of Courses for specific titles.  
Credits: 0-6.

**BIOL 096 - Special Topics**

See Schedule of Courses for specific titles.  
Credits: 0-6.

**BIOL 101 - See BCOR 101**

Credits: 0.

**BIOL 102 - See BCOR 102**

Credits: 0.

**BIOL 103 - Cell Function & Structure**

BIOL 012; CHEM 031, CHEM 032,  
Credits: 4.

**BIOL 104 - Comparative Animal Physiology**

Physiology of organs and organ systems in animals emphasizing basic principles of physiology common to all forms. Prerequisites: Biol 1,2 or 11,12; 103 recommended.  
Credits: 4.

**BIOL 191 - Research Apprenticeship**

Departmental permission.  
Credits: 1-3.

**BIOL 192 - Research Apprenticeship**

Participation in a faculty research project. Suitable for students in first through junior years. Students must follow all departmental guidelines. Prerequisite:  
Credits: 1-3.

**BIOL 193 - Internship in Biology**

permission.  
Credits: 3.

**BIOL 194 - Internship in Biology**

Professional experience, containing a substantial academic component, with an off-campus organization or campus unit other than Biology Department. Students must follow all departmental guidelines. Prerequisite: Department permission.

Credits: 3.

**BIOL 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 0-6.

**BIOL 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 0-6.

**BIOL 197 - Undergraduate Research**

Individual laboratory research under faculty guidance. Students must follow departmental guidelines or be disenrolled. Six credits given only with presentation in department Research Day or approved venue. Prerequisite: Junior or senior standing, departmental permission.

Credits: 3 or 6.

**BIOL 198 - Undergraduate Research**

Individual laboratory research under faculty guidance. Students must follow departmental guidelines or be disenrolled. Six credits given only with presentation in department Research Day or approved venue. Prerequisite: Junior or senior standing, departmental permission.

Credits: 3 or 6.

**BIOL 202 - Quantitative Biology**

Mathematical concepts applied to biological problems such as growth, metabolism, temperature effects, kinetics, and graphic interpretation of data. Statistics not treated. Prerequisite: At least one intermediate level course in biology, Math. 9, or instructor's permission.

Credits: 3.

**BIOL 203 - Population Ecology**

Analysis of growth, regulation, and interrelations of biological populations in theoretical, laboratory, and natural systems. Prerequisite: BCOR 102.

Credits: 3.

**BIOL 204 - Adv Genetics Laboratory**

BCOR 101 Discussions and Laboratories to provide experience with modern genetic techniques. Bench work and data analysis emphasized. May be repeated for credit. Prerequisites:

Credits: 2 or 4.

**BIOL 205 - Adv Genetics Laboratory**

Discussions and Laboratories to provide experience with modern genetic techniques. Bench work and data analysis emphasized. May be repeated for credit. Prerequisites: BCOR 101

Credits: 2 or 4.

**BIOL 206 - Immature Insects**

Evolution, morphology, taxonomy, and natural history of immature insects. Laboratory covers some morphology, but is predominantly identification. Prerequisites: Junior standing; major or minor in Biology. UG only.

Credits: 4.

**BIOL 208 - Morphology&Evolution Insects**

Interrelationships, fossil history, comparative anatomy of major insect groups. Morphology and way of life of representatives of important insect orders and classes of arthropods. Prerequisite: BCOR 102 or 104.

Credits: 4.

**BIOL 209 - Field Zoology**

Collection, identification of invertebrates; September field work. Half of student's collection is general, identified to family; half is one or two groups identified to species. Prerequisite: BCOR 102 or 104.

Credits: 4.

**BIOL 212 - Comparative Histology**

Anatomy of tissues, chiefly vertebrate. Tissue similarities and specializations of organs among the various groups of animals in relation to function. Prerequisite: 104.

Credits: 4.

**BIOL 217 - Mammalogy**

Classification, identification, morphology, evolution, and distribution of mammals. Prerequisite: BCOR 102.

Credits: 4.

**BIOL 219 - Compar/Func Vertebrate Anatomy**

(2-4) Structure, function, and phylogeny; survey of evolutionary and functional trends; investigation of the structure of all chordate groups. Prerequisite: 104

Credits: 4.

**BIOL 223 - Developmental Biology**

An analysis of the cellular, subcellular, molecular, and genetic mechanisms that operate during oogenesis and embryogenesis in invertebrate and vertebrate organisms. Prerequisite: BCOR 101, BIOL 103.

Credits: 3.

**BIOL 225 - Physiological Ecology**

Processes by which animals cope with moderate, changing, and extreme environments. Prerequisites: BCOR 102, 104.

Credits: 3.

**BIOL 238 - Winter Ecology**

Natural history and winter adaptation of plants and animals of western Maine. Field

work during winter break; oral and written report completed during spring semester. Prerequisite: Instructor permission.

Credits: 3.

**BIOL 246 - Ecological Parasitology**

Parasite-host interactions examined with evolutionary perspective. Topics include the origin of parasites, evolution of virulence, and ecological consequences of parasitism. Laboratory includes original experiments. Prerequisite: BCOR 102.

Credits: 1 or 3.

**BIOL 254 - Population Genetics**

environmental biology are emphasized. Methods of detecting and investigating genetic variation, as well as its causes and consequences. Applications from medicine, forensics, and Pre/co-requisite: BCOR 101.

Credits: 0-4.

**BIOL 255 - Comparative Physiology**

Physiology at the organ, systems, and organismal levels. Capstone course to consolidate biological concepts. Pre/co-requisites: Bio 101, 102, 103.

Credits: 4.

**BIOL 261 - Neurobiology**

Focus on molecular and cellular aspects of the nervous system. Electrical signaling, synaptic transmission, signal transduction, neural development, plasticity and disease. Prerequisite: BCOR 103. Cross-listed with: ANNB 261.

Credits: 3.

**BIOL 262 - Neurobiology Techniques**

Extensive study of laboratory methods used in modern research on the function of the nervous system. Techniques from electrophysiology, cell biology, biochemistry, and genetics. Pre/co-requisites: BCOR 103, BIOL 261.

Credits: 4.

**BIOL 263 - Genetics Cell Cycle Regulation**

Molecular events during the cell cycle; mutants defective in cell cycling; comparison of normal and transformed (cancer) cell cycling. Prerequisite: BCOR 101 or instructor's permission. Alternate years, 1999-00.

Credits: 3.

**BIOL 264 - Community Ecology**

Theoretical and empirical analyses of community structure. Topics include population growth, metapopulation dynamics, competition, predation, species diversity, niches, disturbance succession, island biogeography, and conservation biology. Prerequisite: BCOR 102; at least Junior standing.

Credits: 3.

**BIOL 265 - Developmental Molecular Genetics**

Current topics in developmental genetics explored through lectures and discussions of current literature; emphasis on molecular approaches.

Prerequisites: BCOR 101. Alternate years.

Credits: 3.

**BIOL 267 - Molecular Endocrinology**

Study of hormone action at the cellular and molecular level. Prerequisite: BCOR 101.

Credits: 4.

**BIOL 268 - Medical Entomology**

permission. UG only. Examines the arthropod vectors of temperate and tropical diseases that affect human health, using an ecological and a systematics approach. Prerequisites: 102 or instructor

Credits: 3-4.

**BIOL 269 - Plant-Animal Interactions**

Ecological and evolutionary interactions among plants and animals. Topics include herbivory, pollination, seed predation, biocontrol, and effects of global climate change. Prerequisites: Biology 1,2 or BCOR 11,12; BCOR 102 recommended. UG only.

Credits: 3.

**BIOL 270 - Speciation and Phylogeny**

Contributions of modern research in such fields as genetics, systematics, distribution, and serology to problems of evolutionary change. Prerequisite: BCOR 101 (102 recommended). Alternate years. 1999-00.

Credits: 3.

**BIOL 271 - Evolution**

Basic concepts in evolution will be covered, including the causes of evolutionary change, speciation, phylogenetics, and the history of life. Pre/co-requisites: BCOR 102 or permission of the Instructor.

Credits: 3.

**BIOL 276 - Behavioral Ecology**

Adaptive significance of behavior in natural environments. Evolutionary theory applied to behavior and tested with field data. Prerequisites: 102 or instructor permission. UG only.

Credits: 3.

**BIOL 281 - Biology Seminar**

Credits 0-1.

Credits: 0.

**BIOL 282 - Eco Lunch**

Review and discussion of current research. Attendance required of Biology Graduate students. Seniors

Credits: 0-1.

**BIOL 283 - Ecology-Evolution Journal Club**

Credits 0-1.

Credits: 0.

**BIOL 284 - Cell Lunch**

Review and discussion of current research. Attendance required of Biology Graduate students. Seniors in research programs may enroll for 0 credits.

Credits: 1.

**BIOL 285 - John Dewey Honors Crs: Biology**

Advanced Biology course for John Dewey Honors Students with Biology/Zoology/Environmental Sciences Majors. Requires enrollment in approved 200-level course and includes additional assignments. Prerequisites: Departmental permission. UG only.

Credits: 0.

**BIOL 288 - Seminar in Forensic Biology**

Capstone course in seminar format for undergraduates concentrating in Forensic Biology in the Biology major; discussions, readings, guest speakers. Pre/co-requisite: CHEM 141, CHEM 142, and BCOR 101.

Credits: 1.

**BIOL 295 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 0-4.

**BIOL 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 2-4.

**BIOL 297 - Advanced Undergraduate Rsrch**

Research under faculty guidance. Enroll following departmental guidelines and with departmental permission. Up to six credits; six received only with presentation in an approved venue. Pre/co-requisites: Junior or Senior Standing.

Credits: 3 or 6.

**BIOL 298 - Advanced Undergraduate Rsrch**

presentation in an approved venue. Research under faculty guidance. Enroll following departmental guidelines and with departmental permission. Up to six credits; six received only with Pre/co-requisites: Junior or Senior Standing.

Credits: 3 or 6.

**BIOL 299 - Advanced Special Topics**

See Schedule of Courses for specific titles. UG only.

Credits: 1-6.

**BIOL 301 - Cell Biology**

with: CLBI 301.

Credits: 3.



**BIOL 302 - Specialized Cells & Cell Proc**

Current issues and research in the field of plant, invertebrate, mammalian cell, and molecular biology. Prerequisite: BIOL 301. Cross-listed with: CLBI 302.

Credits: 3.

**BIOL 371 - Graduate Colloquium**

Topics of current faculty and graduate student interest presented in a seminar-discussion format. Specific titles for colloquia will be listed in the course schedule.

Credits: 1.

**BIOL 381 - Special Topics**

Readings with conferences, small seminar groups, or laboratories intended to contribute to the programs of graduate students in phases of zoology for which formal courses are not available. Prerequisite: An undergraduate major in life science.

Credits: 0-4.

**BIOL 391 - Master's Thesis Rsch**

Credit as arranged.

Credits: 1-10.

**BIOL 491 - Doctoral Dissertation Research**

Credits: 1-10.

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## Faculty for Biology Department

Bryan A. Ballif

Associate Professor of Biology

Appointed in [2006](#)

[Biology Department](#)

[Neuroscience Graduate Program](#)

BS 1993 [Brigham Young University](#)

MS 1996 [Brigham Young University](#)

PHD 2001 [Harvard University](#)

[Search Courses for Bryan Ballif](#)

Joyce R. Bell

Research Associate of Biology

Appointed in [1994](#)

[Biology Department](#)

BS 1948 [CUNY Queens College](#)

MS 1958 [University of Vermont](#)

[Search Courses for Joyce Bell](#)

William Charles Bress

Adjunct Assistant Professor of Pharmacology

Adjunct Professor of Biology

Appointed in [2001](#)

[Biology Department](#)

[Pharmacology Department](#)

BA 1971 [Long Island University C W Post Campus](#)

MS 1978 [Saint John's University](#)

PHD 1984 [Saint John's University](#)

Education

[Search Courses for William Bress](#)

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

---

Alison Kay Brody  
Professor of Biology  
Appointed in [1995](#)  
[Biology Department](#)  
BS 1980 [Michigan State University](#)  
MA 1984 [University of Kansas](#)  
PHD 1991 [University of California Davis](#)  
[Search Courses for Alison Brody](#)

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Information

Eric Buel  
Adjunct Professor of Biology  
Appointed in [2004](#)  
[Biology Department](#)  
BA 1975 [University of Delaware](#)  
PHD 1979 [University of Missouri Columbia](#)  
[Search Courses for Eric Buel](#)

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Faculty and  
Administration

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Sara Irene Cahan  
Associate Professor of Biology  
Co-Director of Integrated Biological Science  
Appointed in [2004](#)  
[Biology Department](#)  
BS 1992 [University of Michigan Ann Arbor](#)  
PHD 1999 [Arizona State University](#)  
[Search Courses for Sara Cahan](#)

---

Jan Decher  
Lecturer in the Rubenstein School of Environment and Natural Resources  
Research Associate of Biology  
Appointed in [1997](#)  
[Biology Department](#)  
[The Rubenstein School of Environment and Natural Resources](#)  
BS 1985 [Philipps University](#)  
MS 1989 [Fort Hays State University](#)  
PHD 1996 [University of Minnesota Twin Cities](#)  
[Search Courses for Jan Decher](#)

---

Eugene Raymond Delay  
Associate Professor of Biology  
Associate Professor of Psychology

Director of Undergraduate Neuroscience Program

Appointed in 2005

Biology Department

Neuroscience Graduate Program

Psychology Department

BS 1972 University of Idaho

MS 1977 University of Georgia

PHD 1979 University of Georgia

Search Courses for Eugene Delay

---

Rona J. Delay

Associate Professor of Biology

Associate Professor of Neurological Sciences

Appointed in 1999

Biology Department

Neurological Sciences

Neuroscience Graduate Program

BS 1971 Washington State University

PHD 1993 Colorado State University

Search Courses for Rona Delay

---

Margaret Jean Eppstein

Associate Professor of Biology

Associate Professor of Computer Science

Chairperson of Computer Science

Appointed in 1983

Biology Department

Computer Science Department

BS 1978 Michigan State University

MS 1983 University of Vermont

PHD 1997 University of Vermont

Search Courses for Margaret Eppstein

---

Charles James Goodnight

Professor of Biology

Appointed in 1988

Biology Department

BS 1977 University of Michigan Ann Arbor

MS 1979 University of Chicago

PHD 1983 University of Chicago

Search Courses for Charles Goodnight

---

Nicholas James Gotelli

Professor of Biology  
Appointed in [1992](#)  
[Biology Department](#)  
BA 1980 [University of California Berkeley](#)  
MS 1982 [Florida State University](#)  
PHD 1985 [Florida State University](#)  
[Search Courses for Nicholas Gotelli](#)

---

Kenneth Ray Helms  
Research Assistant Professor of Biology  
Appointed in [2004](#)  
[Biology Department](#)  
BS 1983 [Oregon State University](#)  
MS 1987 [University of Nevada Reno](#)  
PHD 1994 [Arizona State University](#)  
[Search Courses for Kenneth Helms](#)

---

Carmen J. Hernandez  
Senior Lecturer of Biology  
Appointed in [1992](#)  
[Biology Department](#)  
BS 1963 [University of Puerto Rico](#)  
MS 1973 [University of Puerto Rico](#)  
PHD 1998 [University of Vermont](#)  
[Search Courses for Carmen Hernandez](#)

---

Linden Elizabeth Higgins  
Lecturer of Plant Biology  
Research Assistant Professor of Biology  
Appointed in [2002](#)  
[Biology Department](#)  
[Plant Biology Department](#)  
BA 1980 [University of Chicago](#)  
MS 1982 [University of Chicago](#)  
PHD 1988 [University of Texas Austin](#)  
[Search Courses for Linden Higgins](#)

---

Charles William Kilpatrick  
Professor of Biology  
Appointed in [1974](#)  
[Biology Department](#)  
BSC 1968 [Midwestern University](#)  
MSC 1969 [Midwestern University](#)

PHD 1973 [University of North Texas](#)

[Search Courses for Charles Kilpatrick](#)

---

Miguel Martin-Caraballo

Assistant Professor of Biology

Appointed in [2003](#)

[Biology Department](#)

BSC 1991 [Moscow State University](#)

MSC 1995 [University of Newfoundland](#)

PHD 2000 [University of Alberta](#)

[Search Courses for Miguel Martin-Caraballo](#)

---

John Joseph Mitchell

Senior Lecturer of Biology

Appointed in [1984](#)

[Biology Department](#)

BS 1972 [University of Hartford](#)

BA 1972 [University of Hartford](#)

PHD 1979 [University of Connecticut](#)

[Search Courses for John Mitchell](#)

---

Joseph Julian Schall

Professor of Biology

Appointed in [1980](#)

[Biology Department](#)

BS 1968 [Pennsylvania State University](#)

MS 1972 [University of Rhode Island](#)

PHD 1976 [University of Texas Austin](#)

[Search Courses for Joseph Schall](#)

---

Steven L. Shapiro

Adjunct Professor of Biology

Clinical Assistant Professor of Pathology

Appointed in [2001](#)

[Biology Department](#)

[Pathology Department](#)

BA 1987 [University of Vermont](#)

MD 1993 [University of Vermont](#)

[Search Courses for Steven Shapiro](#)

---

Lori Stevens

Professor of Biology

Appointed in [1988](#)

Biology Department

BA 1979 University of Delaware

MS 1981 University of Illinois Chicago

PHD 1986 University of Illinois Chicago

Search Courses for Lori Stevens

---

Judith Lee Van Houten

Director of EPScOR

Professor of Biology

Professor of Neurological Sciences

Appointed in 1980

Biology Department

Neurological Sciences

Neuroscience Graduate Program

BS 1972 Pacific Lutheran University

PHD 1976 University of California Berkeley

Search Courses for Judith Van Houten

---

Jim Osvaldo Vigoreaux

Chairperson of Biology

Professor of Biology

Professor of Molecular Physiology and Biophysics

Appointed in 1991

Biology Department

Molecular Physiology and Biophysics Department

BS 1981 University of Puerto Rico

PHD 1987 University of Oklahoma

Search Courses for Jim Vigoreaux

---

Cedric Satish Wesley

Lecturer of Biology

Appointed in 2001

Biology Department

BS 1977 University of Agricultural Sciences

MS 1980 University of Agricultural Sciences

PHD 1991 SUNY Stony Brook

Search Courses for Cedric Wesley

---

Charles Arthur Woods

Adjunct Professor of Biology

Appointed in 2000

Biology Department

BS 1964 University of Denver

PHD 1970 [University of Massachusetts Amherst](#)

[Search Courses for Charles Woods](#)

---

Junji Yano

Research Assistant Professor of Biology

Appointed in [1993](#)

[Biology Department](#)

BS 1973 [Kanazawa University](#)

MS 1975 [Kanazawa University](#)

PHD 1984 [Hiroshima University](#)

[Search Courses for Junji Yano](#)

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## Botany Department

### Contact Information

*University of Vermont  
Botany Department  
Marsh Life Science Building  
Burlington, VT 05405*

Phone: (802) 656-2930  
Fax: (802) 656-0440  
Email: [Lillian.Reade@uvm.edu](mailto:Lillian.Reade@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).

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- [Botany: General Botany \(B.S.\)](#)
- [Botany: Plant Molecular Biology \(B.S.\)](#)

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## Botany (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[MATH 021/MATH 022](#); or [MATH 021](#) and [STAT 141](#) or [STAT 211](#); or [MATH 019/MATH 020](#) and [STAT 141](#) or [STAT 211](#); [PHYS 021/PHYS 022](#); and [PHYS 011/PHYS 012](#) or preferably [PHYS 031/PHYS 042](#); [CHEM 042](#) or preferably [CHEM 141/CHEM 142](#); [BIOL 001/BIOL 002](#); or [BCOR 011](#), [BCOR 012](#); [BCOR 101](#), [BOT 104](#), [BOT 108](#); and [BOT 109](#) or [BCOR 102](#); two additional semester courses in botany, at least one at the 200-level. Six credits of modern foreign language are strongly recommended. Students may petition the department to substitute other courses for certain requirements in the planning of individual programs.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#), [College of Agriculture and Life Sciences](#).
- Departments and Programs:[Botany Department](#).

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## Botany (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Botany Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

At least 15 hours of course work to include [BOT 004](#) or [BIOL 001](#) or [BIOL 002](#); plus three additional courses in botany, at least one at the 200-level.

### Affiliations

- Colleges and Schools:[College of Agriculture and Life Sciences](#).[College of Arts and Sciences](#).
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## Botany: Ecology and Evolutionary Biology of Plants (Bachelor of Science)

### Overview

This concentration offers broad training in organismal biology, with emphasis on population and physiological ecology, community structure and function, and plant evolution and diversity. Students choose from a menu of options in fulfilling most requirements; this flexible curriculum enables students to select from a wide range of courses while achieving proficiency in ecology and evolution of plants. Students are encouraged to initiate an independent research project with one of our faculty.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Botany Core Courses](#)

### Specific Requirements

In addition to the basic course requirements for our departmental major, this concentration has the following requirements and electives:

Concentration Requirements (28 hours): [BOT 108](#), [BOT 109](#), [BCOR 102](#), [CHEM 031](#), [CHEM 032](#), [CHEM 141](#), [CHEM 142](#).

Concentration Electives (12-24 hours): At least six courses from the following, at least two of which must be 200-level Botany courses: [AGBI 201](#), [AGBI 202](#), [BIOL 203](#), [BIOL 238](#), [BIOL 254](#), [BIOL 264](#), [BIOL 270](#), [BOT 117](#), [BOT 205](#), [BOT 209](#), [BOT 213](#), [BOT 223](#), [BOT 232](#), [BOT 234](#), [BOT 241](#), [BOT 260](#), [BOT 261](#), [ENVS 101](#), [ENVS 201](#), [FOR 021](#),

- Education [FOR 120](#), [FOR 121](#), [FOR 122](#), [FOR 225](#), [FOR 228](#), [FOR 234](#). [GEOG 081](#). [GEOL 001](#), [GEOL 055](#), [GEOL 151](#), [GEOL 101](#). [MMG 220](#). [NR 220](#), [NR 224](#), [NR 260](#). [PSS 151](#), [PSS 161](#), [PSS 215](#).
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- Honors College
- School of Business Administration
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- The Rubenstein School of Environment and Natural Resources

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Botany Department > Academic Offerings > Botany: General Botany (B.S.)

## Botany: General Botany (Bachelor of Science)

### Overview

This concentration offers broad training at all levels of plant biology ranging from molecular biology to plant communities. Students have the flexibility to study plants from many perspectives and to understand how the diverse areas are interrelated. Students, in consultation with a faculty advisor, can choose courses that meet their individual needs and interests. Students are encouraged to perform undergraduate research working directly with departmental faculty on laboratory or field projects in plant biology.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Botany Core Courses](#)

### Specific Requirements

In addition to the basic course requirements for our departmental major, this concentration has the following requirements and electives:

Concentration Requirements (29 hours): [BOT 108](#) or [BOT 109](#), [BCOR 102](#), [CHEM 031](#), [CHEM 032](#), [CHEM 141](#), [CHEM 142](#). Physics - one additional semester, with laboratory.

Concentration Electives (1-20 hours): Botany - 5 electives, at least two of which are at the 200-level.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and](#)

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• Honors College

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• Departments and Programs: Botany Department.

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Botany Department > Academic Offerings > Botany: Plant Molecular Biology (B.S.)

## Botany: Plant Molecular Biology (Bachelor of Science)

### Overview

This concentration focuses on the inner workings of plants at the molecular, cellular, and organismal level. Although the basic cellular functions of plants are the same as those of animals, plants face unique challenges and have evolved interesting solutions. To understand the unique biology of plants within a context of what is known about other organisms, courses examining the biochemistry and molecular biology are supplemented by courses on the molecular functions and development of other organisms. In addition to coursework, students are encouraged to get hands-on laboratory experience by taking advantage of the many opportunities to participate in independent research with department faculty.

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Botany Core Courses](#)

### Specific Requirements

In addition to the basic course requirements for our departmental major (listed above), this concentration has the following requirements and electives:

Concentration Requirements (40 credits): [AGBI 201](#), [AGBI 202](#), [AGBI 220](#), [BOT 261](#), [CHEM 031/CHEM 032](#) or [CHEM 035/CHEM 036](#); [CHEM 141](#), [CHEM142](#), [MMG 101](#), [BCOR 103](#). Physics - an additional semester with lab ([PHYS 031/PHYS 042](#) or [PHYS 011/PHYS 012](#)).

- Education
- Concentration Electives (8-15 credits): At least four courses from the following list: [AGBI 191](#), [AGBI 221](#), [AGBI 230](#), [AGBI 250](#), [ASCI 230](#), [BOT 109](#), [BOT 117](#), [BOT 205](#), [BOT 256](#), [BOT 257](#), [BIOL 263](#), [BIOL 265](#), [MMG 220](#), [MMG 225](#), [MMG 240](#), [NFS 243](#), [PHRM 272](#), [PHRM 290](#).
- Graduate College
  - Honors College

### Affiliations

- School of Business Administration
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  - Departments and Programs:[Botany Department](#).
- The Rubenstein School of Environment and Natural Resources

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## Botany Core Courses

### Overview

Options for our Majors: Our students select from three concentrations: General Botany, Plant Molecular Biology, and Ecology and Evolutionary Biology of Plants. Basic courses that are required for all the concentrations, and courses specific for each concentration are listed below. Students may petition the department to substitute similar courses for those listed. Study of modern foreign languages is encouraged for those attracted to the many international career opportunities in plant biology.

### Botany Required Core Courses

Basic Course Requirements (29-32 credits) - required for all concentrations: [BCOR 011/BCOR 012](#). [BOT 104](#), [BCOR 101](#). Chemistry - see specific concentration. [MATH 013/MATH 014](#) or [MATH 019/MATH 020](#) or [MATH 021/MATH 022](#). Physics - one semester with laboratory. Statistics - one course ([STAT 141](#), [STAT 211](#), or [NR 140](#)).

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Botany Department > Courses

## Courses in Botany

### BOT 004 - Intro to Botany

Structure, function, and reproduction of plants. Fundamental aspects of plant science with implications of Credit not given for both Botany 4 and Biology 1.

Credits: 4.

### BOT 006 - The Green World

Evaluation of the impact of plants on the aesthetic, cultural, social, medical, and religious lives of peoples of the world. Botany and Biological Science majors will not receive credit for Botany 6 as part of program distribution requirements.

Credits: 3.

### BOT 095 - Special Topics

Credits: 1-4.

### BOT 096 - Special Topics

Credits: 1-4.

### BOT 104 - Plant Physiology

Study of the plant as a whole, growth and development, water and mineral relations, environmental factors, and regulatory processes. Prerequisites: One year of plant or biological science, beginning chemistry recommended, or instructor's permission.

Credits: 4.

### BOT 108 - Morph & Evol Vasc PI

Evolutionary relationships of vascular plants as inferred from plant structure, ecology, geography, and reproductive biology. Synthesis includes both fossil and extant groups. Prerequisite: 4 or Biology 1, 2. Alternate years.

Credits: 4.

### BOT 109 - Systematics & Phylogeny

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Classification; evolution of flowering plants; characterization and recognition of major families; species and generic concepts; biosystematics; taxonomic keys; preparation of herbarium specimens. Prerequisite: 4 or Biology 1, 2.

Credits: 4.

**BOT 132 - See BCOR 101**

Introduction to transmission and molecular genetics with reference to prokaryotic, animal, and plant systems. Prerequisites: Biology 1, 2; Chemistry 31, 32.

Credits: 3.

**BOT 151 - Plant Anatomy**

Credits: 3.

**BOT 160 - See BCOR 102**

Interactions among plants and their environment. Topics covered include individuals, populations, communities, and ecosystems. Field methods and experimental design covered; ecological applications. Prerequisite: Botany 4 or Biology 1, 2; Math 19 or 21 recommended. Four Hours. Molofsky.

Credits: 0.

**BOT 193 - College Honors**

(For Arts and Sciences seniors.)

Credits: 3.

**BOT 194 - College Honors**

(For Arts and Sciences seniors.)

Credits: 3.

**BOT 195 - Special Topics**

Credits: 1-3.

**BOT 197 - Undergrad Research**

Individual projects under direction of a faculty member. Project may involve original research, readings, or apprenticeships. Prerequisites: Junior or senior standing, departmental permission. One to six hours.

Credits: 1-6.

**BOT 198 - Undergrad Research**

Individual projects under direction of a faculty member. Project may involve original research, readings, or apprenticeships. Prerequisites: Junior or senior standing, departmental permission. One to six hours.

Credits: 1-6.

**BOT 205 - Mineral Nutrition of Plants**

Role of essential elements for plant growth including classical and modern approaches to the study of ion availability and transport. Prerequisite: BOT 104.

Credits: 3.

**BOT 209 - Biology of Ferns**

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Evolutionary biology; a survey of New England ferns and discussion of their phylogenetic relationships; current research emphasizing morphological, biogeographical, genetic, and phytochemical aspects of speciation. Prerequisite: 108; 101 or 132 recommended. Alternate years.

Credits: 3.

### **BOT 213 - Plant Communities**

Plant sociology; structure and organization of the plant community; sampling methods and analysis of data; climatic and edaphic factors; field work.

Prerequisite: 109 or departmental permission.

Credits: 0-3.

### **BOT 223 - Fundamentals of Field Science**

Pattern and process in natural systems. Weekly discussion of unifying questions in science. Field labs teach sampling and analysis of vegetation, soils, and animals.

Prerequisite: Graduate standing or several university courses in earth sciences, life sciences, and chemistry.

Credits: 3.

### **BOT 226 - Environmental Problem Solving**

and map and inventory forested natural areas as they apply problem solving skills to Vermont environmental project. Prerequisites: Instructor permission. One to three hours.

Credits: 1-3.

### **BOT 229 - Water Relations of Plants**

See Forestry 299.

Credits: 3.

### **BOT 232 - Botany Field Trip**

Trips to selected environments outside Vermont, led by faculty members representing different fields of botany. Overall, integrated approach to ecology, structure, and function.

Credits: 1.

### **BOT 234 - Ecology of Freshwater Algae**

Community, population and physiological ecology of algae. Topics include taxonomy; diversity; distribution and seasonal succession; productivity and grazing; growth kinetics; and competitive and synergistic reactions. Prerequisites: Botany 160 or Natural Resources 103 or Biology 102. Alternate years.

Credits: 3.

### **BOT 241 - Tropical Plant Systematics**

Principles and methods of angiosperm phylogeny. Recent systematic and evolutionary research on flowering plants; survey of tropical flowering plant families. Student presentations on recent research. Prerequisite: 109. Alternate years.

Credits: 4.

**BOT 250 - Microtechnique**

anatomy, or cytology is desirable. Three hours. Alternate histochemistry and photomicrography. Prerequisites: Introductory chemistry; some knowledge of organic chemistry, years.

Credits: 3.

**BOT 251 - Principles of Light Microscopy**

Introduction to the optics, construction, and care of the light microscope. Theory of phase and interference contrast, fluorescence, and video methods. Prerequisite: One year of physics or permission.

Credits: 1.

**BOT 252 - Molecular Genetics II**

How cells control the flow of genetic information from gene into active gene product. Distinctions between quiescent and active genes, mechanisms of genetic communication/regulation. Prerequisites: Biology 101 or Agricultural Biochemistry 201 or Biochemistry 301, or equivalent; others by instructor's permission.

Credits: 3.

**BOT 254 - Genetics of Fungi**

Understanding the classical and molecular genetics of fungi with respect to their contributions in agriculture, basic genetics, biotechnology, industry, recombinant DNA, and gene expression. Prerequisites: Biology 101, or Agricultural Biochemistry 201 or Biochemistry 301 or equivalents; others by instructor's permission.

Credits: 3.

**BOT 256 - Adv Plant Genetics**

Review of major topics in higher plant genetics and cytogenetics. Designed to be applied to the systematics, breeding, and gene engineering of higher plants. Prerequisite: 132 or Biology 101.

Credits: 3.

**BOT 257 - Plant Cell Physiology**

Detailed study of photosynthesis, plant cell membrane function, and plant cell growth. Prerequisites: 104, Chemistry 141, 142 or Chemistry 42, Physics 11, 12 or 31, 42. Alternate years.

Credits: 4.

**BOT 258 - Biology of the Fungi**

Taxonomy, genetics, physiology, ecology, and economic importance of the fungi. Representatives of each major microbiological technique and laboratory culture of the fungi. Prerequisites: 101 or 104 or 132 or permission.

Credits: 4.

**BOT 260 - Plant Population Biology**

Study of how environmental and life-history characteristics of plants determine the dynamics and evolution of populations. Prerequisites: Biology 102 or Botany 160

or instructor permission. UG only.

Credits: 3.

**BOT 261 - Plant Growth & Development**

Concepts in plant structure and development. Biophysics of plant structure and pattern-formation. Introduction to methods of plant microscopy and microtechnique. Prerequisites: 104, 108, Intro. Physics or permission.

Credits: 4.

**BOT 281 - Botany Seminar**

Presentations of personal research by faculty, graduate students, and outside guest speakers. Attendance required of botany graduate students and seniors in botanical research programs. Without credit.

Credits: 0.

**BOT 282 - Botany Seminar**

See Botany 281.

Credits: 0.

**BOT 295 - Special Topics**

For advanced students within areas of expertise of faculty. Aspects of ecology, physiology, genetics, cytology, bryology, pteridology, paleobotany, photobiology, membrane physiology, and cell biology. Prerequisite: Departmental permission.

Credits: 0-6.

**BOT 296 - Special Topics**

Special Topics. UG only.

Credits: 1-6.

**BOT 301 - Cell & Molecular Biology**

Advanced survey of cell organelles, their composition, origin, and the relationship between their structure and function. Emphasis on recent literature and current controversies. Prerequisites: Chemistry 142, graduate standing in biology or permission. Cross-listing: Cell and Molecular Biology 301.

Credits: 3.

**BOT 311 - Field Naturalist Practicum**

Landscape analysis; planning and designing field projects; integrated problem solving. Prerequisites: Enrollment in the Field Naturalist program. Variable hours up to three.

Credits: 0-3.

**BOT 381 - Problems in Modern Botany**

Subject matter varies. Topics will stress current graduate student and staff research interests in a journal review or presentation-discussion format.

Prerequisite: Permission.

Credits: 1-4.

**BOT 391 - Master's Thesis Research**



Credit as arranged.

Credits: 1-10.

**BOT 392 - Master Project Rsch**

Credit as arranged.

Credits: 0-3.

**BOT 491 - Doctoral Dissertation Research**

Credit as arranged.

Credits: 1-10.

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## Chemistry Department

### Contact Information

University of Vermont  
 Chemistry Department  
 Cook Physical Sciences Building  
 82 University Place  
 Burlington, VT 05405-0125

Phone: (802) 656-0198

Fax: (802) 656-8705

Email: [Andrea.Lucey@uvm.edu](mailto:Andrea.Lucey@uvm.edu)

[Web Site](#)

### Overview

Students may select either of two degree programs, those opting for a Bachelor of Arts must choose to concentrate in one of three areas: General, Biomolecular, or Environmental Chemistry. All three are acceptable degrees for continuation to a variety of advanced degree programs in Chemistry or other sciences as well as Medicine, Veterinary Science, Law, or Business.

### Affiliations

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## Chemistry (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 035/CHEM 036](#) (or [CHEM 031/CHEM 032](#); or [CHEM 031/CHEM 036](#)), [CHEM 121](#), [CHEM 131](#), [CHEM 143](#), [CHEM 144](#) (or [CHEM 141/CHEM 142](#); or [CHEM 141/CHEM 144](#)), [CHEM 146](#), [CHEM 161](#), [CHEM 162](#), [CHEM 167](#) or [MATH 121](#), [CHEM 201](#), [CHEM 202](#), [CHEM 205](#), [CHEM 221](#), [CHEM 282](#); six hours of advanced chemistry-related course work, which must include 3 hours of [CHEM 291](#) or equivalent; [MATH 021/MATH 022](#); [PHYS 021](#), [PHYS 022](#), [PHYS 031](#), [PHYS 042](#).

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Chemistry (Undergraduate Minor)

### Specific Requirements

CHEM 031/CHEM 032 or CHEM 035/CHEM 036 and one of the two following sequences:

- CHEM 141/CHEM 142 (\*) and one of the following: CHEM 121, CHEM 131, CHEM 160, CHEM 161, CHEM 162, CHEM 221 (with instructor permission).
- CHEM 161, CHEM 162, and one of the following: CHEM 042, CHEM 141.

(\*) CHEM 143/CHEM 144 can be used in place of CHEM 141/CHEM 142.

### Affiliations

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## Chemistry: Biomolecular (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 035/CHEM 036](#) (or [CHEM 031/CHEM 032](#); or [CHEM 031/CHEM 036](#)), [CHEM 121](#), [CHEM 131](#), [CHEM 143/CHEM 144](#) (or [CHEM 141/CHEM 142](#); or [CHEM 141/CHEM 144](#)), [CHEM 162](#), [CHEM 167](#) or [MATH 121](#), [CHEM 201](#), [CHEM 205](#), [CHEM 282](#); [MATH 021/MATH 022](#); [PHYS 021/PHYS 022](#), [PHYS 031](#), [PHYS 042](#); [BIOL 001/BIOL 002](#) (or [BCOR 011/BCOR 012](#)), [BCOR 103](#) or [MMG 102](#); and one of the following: [BIOC 206](#), [BIOC 320](#), [BIOC 321](#), [PHRM 328](#) or one course chosen from a list of approved courses.

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## Chemistry: Environmental (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 035/CHEM 036](#) (or [CHEM 031/CHEM 032](#); or [CHEM 031/CHEM 036](#)), [CHEM 121](#), [CHEM 131](#), [CHEM 143/CHEM 144](#) (or [CHEM 141/CHEM 142](#); or [CHEM 141/CHEM 144](#)), [CHEM 161](#) or [CHEM 162](#), [CHEM 167](#) or [MATH 121](#), [CHEM 201](#), [CHEM 221](#), [CHEM 282](#); [MATH 021/MATH 022](#); [PHYS 021](#), [PHYS 022](#), [PHYS 031](#), [PHYS 042](#); and two courses from the following, at least one of which must be [CE 252](#) or [CE 253](#): [CE 150](#), [CE 252](#), [CE 253](#), [GEOL 233](#), [GEOL 234](#), [GEOL 235](#), or [GEOL 255](#).

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## Chemistry: General Chemistry (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 035/CHEM 036](#) (or [CHEM 031/CHEM 032](#); or [CHEM 031/CHEM 036](#)), [CHEM 121](#), [CHEM 131](#), [CHEM 143/CHEM 144](#) (or [CHEM 141/CHEM 142](#); or [CHEM 141/CHEM 144](#)), [CHEM 146](#), [CHEM 161/CHEM 162](#), [CHEM 167](#) or [MATH 121](#), [CHEM 201/CHEM 202](#), [CHEM 221](#), [CHEM 282](#); [MATH 021/MATH 022](#); [PHYS 021/PHYS 022](#), [PHYS 031](#), [PHYS 042](#).

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## Environmental Sciences [CAS] (Bachelor of Science)

### General Requirements

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### Specific Requirements

[CHEM 042](#) or [CHEM 141\\*](#) or [CHEM 143\\*](#); [GEOL 055\\*\\*](#) or [PSS 161](#); [STAT 141](#) or [STAT 211](#) or [NR 140](#); [ENSC 001](#), [ENSC 101](#), [ENSC 130](#); [BCOR 102\\*\\*\\*](#) or [CHEM 142\\*\\*\\*\\*](#) (or [CHEM 144](#))\*\*\*\* or [GEOL 110\\*\\*](#); and 14-17 credits of advanced coursework, chosen in consultation with your advisor, in one of the following Focus Tracks: Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources. Up-to-date course requirements for each Focus Track are available from your advisor or the Dean's Office; students may elect to petition to develop a self-design track.

Also: [BCOR 011](#) and [BCOR 012](#); [CHEM 031](#) and [CHEM 032](#) (or [CHEM 035](#) and [CHEM 036](#)); [MATH 19](#) and [MATH 20](#) (or [MATH 21](#) and [MATH 22](#) ); [PHYS 011](#) and [PHYS 012](#) (or [PHYS 031](#) and [PHYS 042](#)) - Physics is required only for the Environmental Chemistry Focus Track.

College of Arts and Sciences students majoring in the B.S. program in Environmental Sciences are required to take at least 84 credit hours of coursework in the College of Arts and Sciences.

\*Required for Environmental Biology and Environmental Chemistry Focus Tracks.

\*\*Required for Environmental Geology Focus Track.

Education \*\*\*Required for Environmental Biology Focus Track.

• Graduate College \*\*\*\*Required for Environmental Chemistry Focus Track.

• Honors College

### Affiliations

• School of Business Administration

• Colleges and Schools:[College of Arts and Sciences](#).[College of Agriculture and Life Sciences](#).[The Rubenstein School of Environment and Natural Resources](#).

• The Rubenstein School of Environment and Natural Resources

• Departments and Programs:[Biology Department](#).[Chemistry Department](#).[Geology Department](#).[Environmental Sciences Program](#).

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## Environmental Sciences: Chemistry (Undergraduate Minor)

### Specific Requirements

[CHEM 031/CHEM 032](#); [CHEM 121](#) or [CHEM 042](#); and two additional upper-division non-chemistry courses chosen in consultation with minor advisor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Chemistry Department](#).

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## Courses in Chemistry

### CHEM 023 - Outline of General Chemistry

One-semester survey of principles and concepts of general chemistry, designed primarily to meet needs of students in agricultural and health sciences. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 25, 31 or 35.

Credits: 4.

### CHEM 025 - Outline of General Chemistry

One-semester survey of principles and concepts of general chemistry, designed primarily to meet the needs of students in agricultural and health sciences. NO LABORATORY. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 23, 31 or 35.

Credits: 3.

### CHEM 026 - Outline of Organic & Biochem

Broad overview of most important facts and principles of organic and biochemistry and interrelationships between these branches of chemistry. Prerequisite: 31 or 23. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 28, 42 or 44.

Credits: 4.

### CHEM 028 - Outline of Organic & Biochem

Broad overview of most important facts and principles of organic and biochemistry and of interrelationships between these branches of chemistry. NO LABORATORY. Prerequisite: 31 or 23 or 25. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 26, 42 or 44.

Credits: 3.

### CHEM 031 - Introductory Chemistry

Basic course in principles and concepts of general chemistry. These courses, or

- Education
  - Graduate College
  - Honors College
- CHEM 35, 36 serve as suitable prerequisites for 100-level courses in Chemistry. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 23, 25 or 35.
- Credits: 4.

- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

### **CHEM 032 - Introductory Chemistry**

Basic course in principles and concepts of general chemistry. These courses, or CHEM 35, 36 serve as suitable prerequisites for 100-level courses in Chemistry. Prerequisite: 31 or 35. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 36.

Credits: 4.

### **CHEM 035 - General Chemistry**

General chemistry for students with a strong background in physical sciences. Recommended for students concentrating in physical sciences. Prerequisites: One year of high school chemistry, concurrent enrollment or background in calculus. High school physics recommended. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 23, 25 or 31.

Credits: 4.

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### **CHEM 036 - General Chemistry**

General chemistry for students with a strong background in physical sciences. Recommended for students concentrating in physical sciences. Prerequisites: One year of high school chemistry, concurrent enrollment or background in calculus. High school physics recommended; 31 or 35. May not be taken concurrently with, or following receipt of, credit for CHEM 32.

Credits: 4.

### **CHEM 039 - Introduction to Research**

Overview of methods, areas, and instrumentation of modern chemical research, including hands-on laboratory experiences and written and oral presentations of a research project. Prerequisite: score of 4 or 5 on the AP Chemistry examination or Department permission.

Credits: 2.

### **CHEM 040 - Introduction to Research**

Overview of methods, areas, and instrumentation of modern chemical research, including hands-on laboratory experiences and written and oral presentations of a research project. Prerequisite: score of 4 or 5 on the AP Chemistry examination or permission of department.

Credits: 2.

### **CHEM 042 - Intro Organic Chemistry**

Concepts for understanding chemistry of structurally simple organic compounds of everyday importance. These principles applied to more complex molecules such as polymers and biologically important compounds such as proteins, lipids, and carbohydrates. (Does not satisfy medical school entrance requirements for undergraduate preparation in organic chemistry.) Prerequisite: 31 or 23. May not

be taken for credit concurrently with, or following receipt of, credit for CHEM 26, 28, 44, 141 or 143.

Credits: 4.

#### **CHEM 044 - Intro Organic Chemistry**

Concepts for understanding chemistry of structurally simple organic compounds of everyday importance. These principles applied to more complex molecules such as polymers and biologically important compounds such as proteins, lipids, and carbohydrates. (Does not satisfy medical school entrance requirements for undergraduate preparation in organic chemistry.) NO LABORATORY.

Prerequisite: 31 or 23 or 25. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 26, 28, 42, 141 or 143.

Credits: 3.

#### **CHEM 095 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-4.

#### **CHEM 096 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-4.

#### **CHEM 121 - Quantitative Analysis**

Theory and practice of volumetric and gravimetric analysis. Theoretical discussion of indicators, buffers, pH, etc. Introduction to data analysis, spectrophotometry, and chromatography. Prerequisite: CHEM 032 or CHEM 036.

Credits: 4.

#### **CHEM 131 - Inorganic Chemistry**

Symmetry, group theory, molecular structure; valence shell; MO, crystal field, and ligand field bonding models; solid state, electron deficient, acid-base, and simple organo-metallic systems. Prerequisite: Credit for or concurrent enrollment in 142 or 144.

Credits: 3.

#### **CHEM 141 - Organic Chemistry**

Survey of properties and reactions of organic compounds with consideration of bonding, stereochemistry, mechanisms, principles of reactivity, spectroscopy, syntheses, and utilization. Designed for premedical, pre dental, and preveterinary students and for those majoring in biological and physical sciences. Prerequisites: 31, 32 or 35, 36. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 42, 44 or 143.

Credits: 4.

#### **CHEM 142 - Organic Chemistry**

Survey of properties and reactions of organic compounds with consideration of bonding, stereochemistry, mechanisms, principles of reactivity, spectroscopy, syntheses, and utilization. Designed for premedical, pre dental, and and physical

sciences. Prerequisites: 141. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 144.

Credits: 4.

**CHEM 143 - Organic Chemistry for Majors**

Survey of principles and reactions of organic chemistry for chemistry majors.

Prerequisites: 31,32 or 35,36. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 42 , 44 or 141.

Credits: 4.

**CHEM 144 - Organic Chemistry for Majors**

Survey of principles and reactions of organic chemistry for chemistry majors.

Prerequisites: 143. May not be taken for credit concurrently with, or following receipt of, for credit for CHEM 142.

Credits: 4.

**CHEM 146 - Adv Organic Laboratory**

Laboratory practice in separation, purification, synthesis, identification, spectroscopy, and physical organic techniques as applied to organic compounds. For Chemistry majors. Prerequisite: 144.

Credits: 2.

**CHEM 160 - Phys Chem for Bio Sci Students**

taken for credit concurrently with, or following receipt of, credit for CHEM 162.

Credits: 3.

**CHEM 161 - Physical Chemistry**

Elementary quantum chemistry, bonding, spectroscopy, and statistical mechanics.

Prerequisites: 32 or 36; Physics 42, Math. 121 or Chem. 167.

Credits: 3.

**CHEM 162 - Physical Chemistry**

Properties of gases and solutions; thermodynamics and kinetics. Prerequisites: 32 or 36; PHYS 42, MATH 121 or CHEM 167. Note: CHEM 162 may be taken before 161. May not be taken for credit concurrently with, or following receipt of, credit for CHEM 160.

Credits: 0-3.

**CHEM 167 - Physical Chemistry Preparation**

with: MATH 167.

Credits: 1.

**CHEM 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**CHEM 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.



**CHEM 198 - Readings & Research**

Credits: 1-6.

**CHEM 201 - Advanced Chemistry Lab**

Laboratory and discussion only. Laboratory problems requiring modern analytical, physical, and inorganic synthetic techniques. Prerequisites: 142 or 144; credit for or concurrent enrollment in 161 or 162, and 221.

Credits: 3.

**CHEM 202 - Advanced Chemistry Lab**

Laboratory only. Laboratory problems requiring modern analytical, physical, and inorganic synthetic techniques. Prerequisites: 201.

Credits: 2.

**CHEM 205 - Biochemistry I**

Introduction to chemistry and structure of biological macromolecules; examination of mechanisms of chemical processes in biological systems including enzyme catalysis, biosynthesis, regulation, and information transfer. Prerequisite: CHEM 142 or CHEM 144. Cross-listed with: BIOC 205 and MMG 205.

Credits: 3.

**CHEM 206 - Biochemistry II**

acids; nucleic acid based processes, such as replication and transcription; cellular information transfer, genomics, and proteomics. with: BIOC 206 and MMG 206.

Credits: 3.

**CHEM 207 - Biochemistry Lab**

Introduction to biochemical tools, including spectrometry, chromatography, and electrophoresis; natural and recombinant enzyme isolation; assays of DNA-modifying enzymes; computer-based structure/function exercises. Co-requisite: CHEM 205 or CHEM 206. Cross-listed with: BIOC 207 and MMG 207.

Credits: 2.

**CHEM 214 - Polymer Chemistry**

Polymer size and weight distributions. Kinetic models for step polymerization, addition polymerization, copolymerization. Physical properties, characterization of polymers in the solid state and in solution. Prerequisites: 144, 162. Alternate years.

Credits: 3.

**CHEM 221 - Instrumental Analysis**

Systematic survey of modern methods of chemical analysis. Fundamental principles and applications of spectroscopy, electrochemistry, and separation techniques. Prerequisite: 161 or CHEM 162 strongly recommended.

Credits: 3.

**CHEM 223 - Mass Spectrometry**

as well as specific applications relevant to the students in the course.

Prerequisites: 142 or 144 and 221 or instructor's permission.

Credits: 3.

### **CHEM 224 - Chemical Separations**

Theory and practice of chromatographic separations. Emphasis on gas-liquid, liquid-liquid, and liquid-solid chromatography. Prerequisite: CHEM 221. Alternate years.

Credits: 3.

### **CHEM 225 - Electroanalytical Chemistry**

Introductory to modern operational amplifier Principles of modern electrochemical analysis focusing mainly on finite current methods - voltammetry, polarography, chronoamperometry, cyclic voltammetry, etc. instrumentation. Double layer theory and electron transfer kinetics. Prerequisite: 161. Alternate years.

Credits: 3.

### **CHEM 226 - Analytical Spectroscopy**

Principles of optical spectroscopic methods of analysis. Emphasis on theory and practice of atomic spectroscopy and new molecular spectroscopic methods.

Prerequisite: CHEM 221. Alternate years.

Credits: 3.

### **CHEM 227 - Spec Topics in Analytical Chem**

Selected topics of current interest in analytical chemistry. New techniques and methodologies, especially in chemical instrumentation. Credit as arranged.

Credits: 1-3.

### **CHEM 228 - Spec Topics in Analytical Chem**

Selected topics of current interest in analytical chemistry. New techniques and methodologies, especially in chemical instrumentation. Credit as arranged.

Credits: 1-4.

### **CHEM 231 - Adv Inorganic Chemistry**

Advanced group theory; electronic transitions in metal complexes and spectroscopic analysis; inorganic substitution and electron transfer mechanisms; homogeneous and heterogeneous catalytic processes; bioinorganic chemistry.

Prerequisite: 131.

Credits: 3.

### **CHEM 234 - Organometallic Chemistry**

Systematic survey of synthesis, properties, structures, bonding, and reactions of both main group and transition series organometallic compounds. Variation of structure and metal-carbon bond stability throughout periodic system. Prerequisite: 231. Alternate years.

Credits: 3.

### **CHEM 236 - Physical Inorganic Chemistry**

magnetic resonance, Mossbauer spectroscopy, and optical activity. Prerequisites: 161, 231. Alternate years.

Credits: 3.

**CHEM 237 - SpecTopic: Inorganic Chemistry**

Areas of current interest involving inorganic systems such as bioinorganic, solid state and polymers with unusual properties. Credit as arranged.

Credits: 1-3.

**CHEM 238 - SpecTopic: Inorganic Chemistry**

Areas of current interest involving inorganic systems such as bioinorganic, solid state and polymers with unusual properties. Credit as arranged.

Credits: 1-3.

**CHEM 241 - Advanced Organic Chemistry**

Stereochemistry, reactivity criteria, reaction mechanisms, and synthetic methods stressed. Reactive intermediates such as carbanions, carbocations, carbenes, and free radicals used to systematize mechanistic discussions. Prerequisites: 142, 162.

Credits: 3.

**CHEM 242 - Advanced Organic Chemistry**

Detailed mechanistic descriptions of processes which may include enolate reactions and stereochemical considerations, addition processes such as halogenation, cycloadditions, hydroboration, hydride and metal-ammonia reductions, annulations such as biomimetic cyclizations, oxidation processes, rearrangements, eliminations, and examinations of approaches to multistep syntheses. Prerequisite: CHEM 241.

Credits: 3.

**CHEM 251 - Physical Organic Chemistry**

Structure-reactivity relationships, molecular properties and their interpretation. Methods and results of investigations of mechanisms of common organic reactions. Prerequisites: 142, 162. Alternate years.

Credits: 3.

**CHEM 257 - Special Topics in Organic Chem**

Advanced level discussion of specific topics in organic chemistry of current interest such as photochemistry, carbenes, bioorganic chemistry, magnetic resonance, etc. Credit as arranged.

Credits: 1-3.

**CHEM 258 - Special Topics in Organic Chem**

Advanced level discussion of specific topics in organic chemistry of current interest such as photochemistry, carbenes, bioorganic chemistry, magnetic resonance, etc. Credit as arranged.

Credits: 1-3.

**CHEM 262 - Chemical Thermodynamics**

Systematic study of application of thermodynamics to chemical problems. Concepts of statistical thermodynamics introduced. Prerequisites: 161, 162.

Alternate years.

Credits: 3.

**CHEM 263 - Intro to Quantum Mechanics**

General considerations of quantum mechanics. Development of techniques pertinent to application of quantum mechanics to chemical problems. Prerequisite: CHEM 161, CHEM 162. Alternate years.

Credits: 3.

**CHEM 264 - Fundamentals of Spectroscopy**

In-depth discussion of the theory of molecular states and transitions between them, with applications to electronic spectroscopy. Explicit treatment of vibrations in molecules. Prerequisites: 161, Math.121. Alternate years.

Credits: 3.

**CHEM 265 - Statistical Mechanics**

CHEM 161, CHEM 162; CHEM 263

Credits: 3.

**CHEM 266 - Molecular Orbital Theory**

Introduction to Huckel molecular orbital method. Energy levels and orbitals, molecular properties and their interpretation. Effects of substituents on electronic structure. Extensions of Huckel method. Prerequisites: 142, 161. Alternate years. UG only.

Credits: 3.

**CHEM 267 - Special Topics in Phys Chem**

Advanced discussion of physical chemistry and chemical physics, group theory, solid state, molecular orbital theory, irreversible thermodynamics, kinetics and mechanisms, solution theory, calculations, spectroscopy. Credit as arranged.

Credits: 1-4.

**CHEM 268 - Special Topics in Phys Chem**

physics, group theory, solid state, molecular orbital theory, irreversible thermodynamics, kinetics and mechanisms, solution theory, calculations, spectroscopy. Credit as arranged.

Credits: 1-4.

**CHEM 282 - Senior Seminar**

Oral and written presentation of a subject of current chemical interest.

Prerequisite: Audit of CHEM 381.

Credits: 1.

**CHEM 285 - Special Topics**

Credits: 1-3.

**CHEM 286 - Special Topics**

Credits: 1-3.

**CHEM 291 - Undergrad Research**

Special study in inorganic, analytical, physical, or organic chemistry with an assigned staff member. Findings submitted in written form. Prerequisite: Departmental permission. Credit as arranged with maximum of four hours per semester and 12 hours for the undergraduate program.

Credits: 1-4.

**CHEM 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. UG only.

Credits: 1-3.

**CHEM 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. UG only.

Credits: 1-3.

**CHEM 342 - Natural Products: Alkaloids**

The major classes of alkaloids surveyed from a biogenetic point of view. Classical and modern degradation methods, total syntheses and biosynthetic incorporation of labeled compounds. Prerequisite: Credit or concurrent enrollment in CHEM 242. Alternate years.

Credits: 3.

**CHEM 344 - Natural Products: Terpenes**

The chemistry of mono, sesqui, di and triterpenes, including degradations, structure proofs, total syntheses, rearrangement reactions, and biogenesis. Prerequisite: Credit or concurrent enrollment in CHEM 242. Alternate years.

Credits: 3.

**CHEM 381 - Grad Seminar**

Current problems and literature.

Credits: 1.

**CHEM 382 - Grad Seminar**

Current problems and literature.

Credits: 1.

**CHEM 388 - Rsch Prob Conception&Solution**

Independent origination of research problems and the methods of their solution. Required of all doctoral course shall be completed at least six months in advance of the Ph.D. dissertation defense, and in no case later than the end of the seventh semester of Graduate studies at UVM.

Credits: 1.

**CHEM 391 - Master's Thesis Research**

Credits: 1-18.

**CHEM 395 - Independent Lit Rsch Project**

Reading and literature research culminating in the preparation of a comprehensive and critical review of a topic of current interest in chemistry.

Credits: 1-12.

**CHEM 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## Faculty for Chemistry Department

Christopher Whitney Allen

Professor of Chemistry Emeritus

Appointed in [1967](#)

[Chemistry Department](#)

BA 1964 [University of Connecticut](#)

MS 1966 [University of Illinois Urbana-Champaign](#)

PHD 1967 [University of Illinois Urbana-Champaign](#)

[Search Courses for Christopher Allen](#)

Matthias Brewer

Associate Professor of Chemistry

Appointed in [2005](#)

[Chemistry Department](#)

BA 1996 [University of Vermont](#)

PHD 2002 [University of Wisconsin Madison](#)

[Search Courses for Matthias Brewer](#)

Martin Ashley Case

Assistant Professor of Chemistry

Appointed in [2003](#)

[Chemistry Department](#)

BSC 1987 [University of Birmingham](#)

PHD 1991 [University of Birmingham](#)

[Search Courses for Martin Case](#)

Joel Michael Goldberg

Education Associate Dean of the College of Arts and Sciences  
Associate Professor of Chemistry

- Graduate College Appointed in [1982](#)  
[Chemistry Department](#)
- Honors College [Dean's Office, College of Arts and Sciences](#)
- School of Business Administration AB 1978 [Oberlin College](#)  
PHD 1982 [University of Michigan Ann Arbor](#)  
[Search Courses for Joel Goldberg](#)

- The Rubenstein School of Environment and Natural Resources

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Robert J. Hondal  
Associate Professor of Biochemistry  
Associate Professor of Chemistry  
Appointed in [2002](#)  
[Biochemistry Department](#)  
[Chemistry Department](#)  
BS 1991 [University of Pittsburgh](#)  
PHD 1997 [Ohio State University](#)  
[Search Courses for Robert Hondal](#)

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Thomas Stephen Hughes  
Assistant Professor of Chemistry  
Appointed in [2002](#)  
[Chemistry Department](#)  
BS 1991 [Temple University](#)  
MS 1995 [Cornell University](#)  
PHD 1999 [Cornell University](#)  
[Search Courses for Thomas Hughes](#)

---

A. Paul Krapchow  
Professor of Chemistry Emeritus  
Appointed in [2003](#)  
[Chemistry Department](#)  
[Search Courses for A. Paul Krapchow](#)

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Christopher C. Landry  
Professor of Chemistry  
Appointed in [1996](#)  
[Chemistry Department](#)  
BS 1990 [University of Richmond](#)  
AM 1992 [Harvard University](#)  
PHD 1994 [Harvard University](#)  
[Search Courses for Christopher Landry](#)

---



Willem R. Leenstra  
Associate Professor of Chemistry  
Appointed in [1980](#)  
[Chemistry Department](#)  
BS 1969 [California State University](#)  
PHD 1979 [University of Washington](#)  
[Search Courses for Willem Leenstra](#)

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Jose Santos Madalengoitia  
Associate Professor of Chemistry  
Appointed in [1995](#)  
[Chemistry Department](#)  
BS 1987 [James Madison University](#)  
PHD 1993 [University of Virginia](#)  
[Search Courses for Jose Madalengoitia](#)

---

Dwight E. Matthews  
Chairperson of Chemistry  
Professor of Chemistry  
Professor of Medicine  
Appointed in [1996](#)  
[Chemistry Department](#)  
[College of Medicine](#)  
BA 1973 [DePauw University](#)  
PHD 1977 [Indiana University Bloomington](#)  
[Search Courses for Dwight Matthews](#)

---

Giuseppe A. Petrucci  
Associate Professor of Chemistry  
Appointed in [2000](#)  
[Chemistry Department](#)  
BSC 1985 [University of Toronto](#)  
MSC 1987 [University of Toronto](#)  
PHD 1990 [University of Florida](#)  
[Search Courses for Giuseppe Petrucci](#)

---

John Frederick Sharp  
Lecturer of Chemistry  
Appointed in [1978](#)  
[Chemistry Department](#)  
BA 1967 [Alfred University](#)  
MS 1973 [Ball State University](#)  
[Search Courses for John Sharp](#)

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Michael John Strauss  
Professor of Chemistry Emeritus  
Appointed in [1968](#)  
[Chemistry Department](#)  
BS 1962 [San Jose State University](#)  
PHD 1967 [University of California Berkeley](#)  
[Search Courses for Michael Strauss](#)

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Rory Waterman  
Associate Professor of Chemistry  
Appointed in [2006](#)  
[Chemistry Department](#)  
BS 1999 [University of Rochester](#)  
MS 2000 [University of Chicago](#)  
PHD 2004 [University of Chicago](#)  
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## Chinese Language Program

### Contact Information

University of Vermont  
 Chinese Language Program  
 479 Main Street  
 Burlington, VT 05405-0078

Phone: (802) 656-0371  
 Email: [John.Yin@uvm.edu](mailto:John.Yin@uvm.edu)

[Web Site](#)

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and Health  
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## Chinese (Undergraduate Minor)

### Specific Requirements

Fifteen credits of Chinese with at least eight of those credits at the 100-level, including CHIN 102 or its equivalent. Three credits at or above the 100-level in Chinese linguistics or literature may be substituted for three credits of language study beyond CHIN 102 or its equivalent.

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## Courses in Chinese

### CHIN 001 - Elementary

language.

Credits: 4.

### CHIN 002 - Elementary

A study of Mandarin Chinese designed to give the beginning

Credits: 4.

### CHIN 051 - Intermediate

A continuation of 1, 2 designed to enable the student to converse in everyday Chinese, and to read and write simple texts. Prerequisite: 2 or equivalent.

Credits: 4.

### CHIN 052 - Intermediate

A continuation of 1, 2 designed to enable the student to converse in everyday Chinese, and to read and write simple texts. Prerequisite: 2 or equivalent.

Credits: 4.

### CHIN 095 - Special Topics

Introductory courses on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

### CHIN 096 - Special Topics

Introductory courses on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

### CHIN 101 - Advanced Chinese

Structured readings with emphasis on sentence structures, vocabulary expansion,

Education and increased fluency in self-expression. Prerequisite: 52 or equivalent.  
Credits: 3.

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• Honors College

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Natural Resources

**CHIN 102 - Advanced Chinese**

Structured readings with emphasis on sentence structures, vocabulary expansion, and increased fluency in self-expression. Prerequisite: 52 or equivalent.  
Credits: 3.

**CHIN 195 - Special Topics**

See Schedule of Courses for specific titles.  
Credits: 1-3.

**CHIN 196 - Special Topics**

See Schedule of Courses for specific titles.  
Credits: 1-3.

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**CHIN 197 - Readings & Research**

Individual research project or directed reading in area of special interest to student. Prerequisite: Instructor permission. Variable credit.  
Credits: 1-6.

**CHIN 198 - Readings & Research**

Individual research project or directed reading in area of special interest to student. Prerequisite: Instructor permission. Variable credit.  
Credits: 1-6.

**CHIN 201 - Adv Conversation & Composition**

To improve oral and written proficiency through reading news- papers and short stories, discussion, and composition. Prerequisites: 102 or equivalent for 201; 201 for 202.  
Credits: 3.

**CHIN 202 - Adv Conversation & Composition**

To improve oral and written proficiency through reading news- papers and short stories, discussion, and composition. Prerequisites: 102 or equivalent for 201; 201 for 202.  
Credits: 3.

**CHIN 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental  
Credits: 1-3.

**CHIN 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Prerequisites: CHIN 202 or equivalent.  
Credits: 1-3.

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## Classics Department

### Contact Information

University of Vermont  
 Classics Department  
 481 Main St  
 Burlington, VT 05405-0218

Phone: (802) 656-3210  
 Email: [classics@uvm.edu](mailto:classics@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools:[College of Arts and Sciences.](#)

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## Classics Department: Academic Offerings

- [Classical Civilization \(B.A.\)](#)
- [Classical Civilization \(Minor\)](#)
- [Greek \(B.A.\)](#)
- [Greek Language and Literature \(Minor\)](#)
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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Classics Department > Academic Offerings > Classical Civilization (B.A.)

## Classical Civilization (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

36 hours consisting of 30 in the Major Discipline and 6 in Related Courses. Of these 36 hours, 12 must be at the 100-level or above. Major Discipline: All courses in Classics, Latin, Greek, Ancient History, and Ancient Art are applicable, of which 1 course in Ancient Art (Art 146, 148, or 149) and any 2 courses in Ancient History (Classics 21, 23, 121, 122, 149, 221, 222) are required. Related Courses: For a list of approved related courses in Fine Arts, Humanities, Social Sciences and Natural Sciences, students should consult with the Classics department. Foreign Language: Fulfillment of the language distribution requirement of the College of Arts and Sciences is required, preferably with Latin or Greek.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Classics Department > Academic Offerings > Classical Civilization (Minor)

## Classical Civilization (Undergraduate Minor)

### Specific Requirements

Eighteen hours from the following (of which at least nine hours must be above 100): all courses in Greek and Latin above 50-level; all courses in Classics; [ART 146](#), [ART 148](#), [ART 149](#); and all special topic courses (95, 96, 195, 295, 296) in Classics, Latin or Greek. All Classical Civilization minors must fulfill the College foreign language requirement, preferably in Greek or Latin.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Greek (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours in courses above 50, among which 111, 112, and Classics 121 are required and one course in literature in translation above 100 and one course in Latin above 100 are applicable; a second foreign language, at least through the intermediate level, is recommended.

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## Greek Language and Literature (Undergraduate Minor)

### Specific Requirements

Fifteen hours of Greek at 51 or above, to which three hours from the following are applicable: Classics 121, 153, 154, 155, 156, 157, 158.

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Classics Department > Academic Offerings > Latin (B.A.)

## Latin (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours in courses above 50, among which 111, 112, and Classics 122 are required and one Classics course above 100 and one course in Greek above 100 are applicable; a second foreign language, at least through the intermediate level, is recommended.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Latin Language and Literature (Undergraduate Minor)

### Specific Requirements

Fifteen hours of Latin at 51 or above, to which three hours from the following are applicable: Classics 122, 153, 154, 155, 156, 158, 159.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Courses offered by the Classics Department

### Courses in Classics

#### CLAS 013 - Ideas in the Western Tradition

REL 027, REL 028; Integrated Humanities Program.

Credits: 3.

#### CLAS 015 - From Letters to Literature

Topics in script, literacy, books, libraries, cultural expression, preservation, and access from ancient Mesopotamia to the age of printing and the era of electronic information.

Credits: 3.

#### CLAS 021 - Classical Greek Civilization

A study of the "Golden Age of Pericles," the course covers the whole of Athenian society from art to war, culminating in the trial of Socrates. Cross-listed with: HST 021.

Credits: 3.

#### CLAS 022 - Etymology

Derivation of English words from Greek and Latin bases. Training in analysis of unfamiliar words, special attention to scientific vocabulary.

Credits: 3.

#### CLAS 023 - Classical Roman Civilization

Cross-listed with: HST 022.

Credits: 3.

#### CLAS 024 - Myths/Legends Trojan War

Homeric epics, Virgil's Aeneid, selections from tragedy dealing with the Trojan War

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and Greco-Roman cultural identity. Examples from art and archaeology supplement the literary theme. Cross-listed with: WLIT 024.

Credits: 3.

**CLAS 035 - The End of the Roman Republic**

Participants describe the Republic's end: Caesar justifies conquest and civil war; Catullus and Sallust reveal a society in turmoil; Cicero documents first-century politics: political gangs, bribery, and violence. Cross-listed with: WLIT 035.

Credits: 3.

**CLAS 037 - Early Roman Empire: Lit Trans**

Poetry and prose in the first century C.E. (the age of Augustus, Nero, Trajan), emphasizing varieties and limitations of political and literary freedom. Cross-listed with: WLIT 037.

Credits: 3.

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**CLAS 042 - Mythology**

Greek myth in literature, art, and music from antiquity to modern times. No prerequisites. Spring semester. Cross-listed with: WLIT 042.

Credits: 3.

**CLAS 095 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**CLAS 096 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**CLAS 121 - History of Greece**

Cross-listed with: HST 121.

Credits: 3.

**CLAS 122 - History of Rome**

HST 122.

Credits: 3.

**CLAS 145 - Comparative Epic**

Interdisciplinary introduction to epic poetry and performance, from Gilgamesh and the Homeric poems to the Kalevala traditions of Finland to the griot poetry and music of West Africa. Prerequisite: Sophomore standing. Cross-listed with: WLIT 145.

Credits: 3.

**CLAS 149 - History of Ancient Near East**

Survey of primary civilizations of Egypt and Mesopotamia and the secondary cultures of Anatolia, Syria-Palestine, Assyria, and Persia. Prerequisites: HST 009 or CLAS 021 (HST 021) or appropriate work in Classics. Cross-listed with: HST 149.

Credits: 3.

**CLAS 153 - Greek Drama**

Plays of Aeschylus, Sophocles, Euripides, and Aristophanes in their historical and cultural setting. Prerequisite: Sophomore standing. Cross-listed with: WLIT 153.

Credits: 3.

**CLAS 154 - Stories and Histories**

standing.

Credits: 3.

**CLAS 155 - Ancient Epic**

Homer, Apollonius, and Vergil, as well as readings selected from other Greek and Latin epic (including epyllia) and didactic poetry. Prerequisite: Sophomore standing. Cross-listed with: WLIT 155.

Credits: 3.

**CLAS 156 - Satiric Spirit**

Prerequisite: Sophomore standing.

Credits: 3.

**CLAS 157 - Greek Feminism**

Cross-listed with: HST 157, WLIT 157, WGST 157.

Credits: 3.

**CLAS 158 - Greco-Roman Political Thought**

History of Greco-Roman political thought and political reality, as revealed by lawgivers, philosophers, politicians, and historians. Prerequisite: Sophomore standing.

Credits: 3.

**CLAS 161 - Plato**

A survey of Plato's works, including the "early," "middle," and parts of the "late" dialogues. Emphasis will be laid on reading the dialogues themselves.

Prerequisite: One course in Philosophy, or one course in Classics (Greek Culture or Greek). Cross-listed with: PHIL 108.

Credits: 3.

**CLAS 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**CLAS 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**CLAS 197 - Readings & Research**

Credits: 1-6.

**CLAS 198 - Readings & Research**

Credits: 1-6.

**CLAS 221 - Seminar in Ancient History**

Selected aspects of Near Eastern, Greek, or Roman History (e.g. trade and colonization, imperialism, social and political institutions, cultural and intellectual developments). Prerequisite: Minimum Junior standing; Twelve hours of History.

Credits: 3.

**CLAS 222 - Seminar in Ancient History**

Selected aspects of Near Eastern, Greek, or Roman History (e.g. trade and colonization, imperialism, social and political institutions, cultural and intellectual developments). Prerequisites: Junior, senior, or graduate standing, 12 hours of history. UG only.

Credits: 3.

**CLAS 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**CLAS 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

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## Courses in Greek

**GRK 001 - Elementary**

Credits: 4.

**GRK 002 - Elementary**

Credits: 4.

**GRK 003 - Self-Paced Greek**

Fundamentals of Classical Greek through tutorial instruction, credit dependent on amount of material learned. May be repeated for credit. No credit with GRK 001 and GRK 002.

Credits: 1-8.

**GRK 051 - Intermediate**

Review of syntax. Readings from Plato, Herodotus, and Euripides.

Credits: 3.

**GRK 052 - Intermediate**

Review of syntax. Readings from Homer.

Credits: 3.

**GRK 095 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-8.

**GRK 096 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-9.

**GRK 111 - Greek Prose Style**

Readings in literary prose analyzed stylistically and imitated in composition. Required of Greek majors.

Credits: 3.

**GRK 112 - Greek Prose Style**

Readings in literary prose analyzed stylistically and imitated in composition. Required of Greek majors.

Credits: 3.

**GRK 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**GRK 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**GRK 197 - Readings & Research**

Credits: 1-3.

**GRK 198 - Readings & Research**

Credits: 1-6.

**GRK 201 - Greek Orators**

Selected speeches of Lysias and Demosthenes. B. Saylor Rodgers. Alternate years, as needed.

Credits: 3.

**GRK 202 - Greek Comedy**

Two plays of Aristophanes. Alternate years, as needed.

Credits: 3.

**GRK 203 - Greek Historians**

Thucydides, Books I and II; selections from Herodotus and Xenophon's Hellenica. Alternate years, as needed.

Credits: 3.

**GRK 204 - Greek Tragedy**

Sophocles' Antigone, and Euripides' Medea, or two equivalent plays. Alternate years, as needed.

Credits: 3.

**GRK 205 - Greek Philosophers**

Dialogues of Plato with attention to language and dialectical method; Aristotle, Xenophon or Presocratic philosophers may be read. Alternate years, as needed.

Credits: 3.

**GRK 206 - Greek Epic**

Reading in the Iliad and Odyssey. Problems of epic composition and language together with mythological and historical background. Alternate years, as needed.

Credits: 3.

**GRK 227 - Greek Lyric Poetry**

A study of early Greek personal, elegiac, and choral poetry from Archilochus to Pindar, including Sappho and Alcaeus, Simonides and Bacchylides. Prerequisites: Two years of college Greek or equivalent. Alternate years, as needed.

Credits: 3.

**GRK 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**GRK 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

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## Courses in Greek & Latin

**GKLT 295 - Special Topics**

UG only.

Credits: 1-3.

**GKLT 300 - Proseminar**

Introduction to philology. Students will normally take this their first semester.

Credits: 3.

**GKLT 381 - Seminar**

Intensive study at the graduate level of Greek and Latin authors not read in the candidate's undergraduate program.

Credits: 3.

**GKLT 391 - Master's Thesis Research**

Credits: 1-6.

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## Courses in Latin

**LAT 001 - Elementary**

For students who present less than two years of high school Latin.

Credits: 4.

**LAT 002 - Elementary Latin**

For students who present less than two years of high school Latin.

Credits: 4.

**LAT 003 - Self-Paced Latin**

Fundamentals of Classical Latin through tutorial instruction, credit dependent on amount of material learned. May be repeated for credit. No credit with LAT 001 and LAT 002.

Credits: 1-8.

**LAT 051 - Intermediate**

Selections from Cicero and other prose authors.

Credits: 3.

**LAT 052 - Intermediate Latin**

Selections from Vergil and Ovid.

Credits: 3.

**LAT 095 - Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-8.

**LAT 096 - Elementary Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**LAT 101 - Survey Latin Literature**

Selections from principal Roman authors.

Credits: 3.

**LAT 102 - Survey Latin Literature**

Selections from principal Roman authors.

Credits: 3.

**LAT 111 - Latin Prose Style**

Readings in literary prose analyzed stylistically and imitated in composition.

Required of B.A. and B.Ed. Latin majors.

Credits: 3.

**LAT 112 - Latin Prose Style**

Readings in literary prose analyzed stylistically and imitated in composition.

Required of B.A. and B.Ed. Latin majors.

Credits: 3.

**LAT 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.

**LAT 196 - Intermediate Special Topics**

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Credits: 1-3.

**LAT 197 - Readings & Research**

Credits: 1-6.

**LAT 198 - Readings & Research**

Credits: 1-6.

**LAT 203 - Republican Prose**

Extensive reading in Caesar and Sallust, and in the speeches of Cicero. Alternate years, as needed.

Credits: 3.

**LAT 204 - Epic Poets**

Extensive reading in Lucretius, Vergil, Ovid, and others. Alternate years, as needed.

Credits: 3.

**LAT 227 - Roman Lyric Poets**

Selections from the works of Catullus, Horace, Propertius, and Tibullus. Alternate years, as needed.

Credits: 3.

**LAT 251 - Roman Letters**

Letters of Cicero, Horace, and Pliny. Alternate years, as needed.

Credits: 3.

**LAT 252 - Comedy**

Two plays of Plautus and Terence. Study of the precursors of this literary form. Alternate years, as needed.

Credits: 3.

**LAT 253 - Roman Oratory**

Selections from Cicero's *De Oratore*, *Orator*, *Brutus*, and from his speeches. Historical development of forensic and other rhetorical canons. Alternate years, as needed.

Credits: 3.

**LAT 255 - Historians of the Empire**

Historians of the Empire. Augustus, *Res Gestae*; Tacitus, *Annals*, I-IV; selections from Suetonius and Ammianus Marcellinus. Alternate years, as needed.



Credits: 3.

**LAT 256 - Satire**

Selections from Horace, Persius, Juvenal, Petronius. Study of the development of this literary form. Alternate years, as needed.

Credits: 3.

**LAT 271 - Silver Latin**

Extensive reading of post-Augustan authors not included in other advanced courses. Alternate years, as needed.

Credits: 3.

**LAT 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**LAT 296 - Advanced Special Topics**

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## Faculty for Classics Department

Z. Philip Ambrose

Professor of Classical Languages and Literature Emeritus

Appointed in [1962](#)

[Classics Department](#)

AB 1958 [Princeton University](#)

MA 1960 [Princeton University](#)

PHD 1963 [Princeton University](#)

[Search Courses for Z. Ambrose](#)

Jacques A. Bailly

Associate Professor of Classics

Appointed in [1997](#)

[Classics Department](#)

BA 1988 [Brown University](#)

PHD 1997 [Cornell University](#)

[Search Courses for Jacques Bailly](#)

Angeline C. Chiu

Associate Professor of Classics

Appointed in [2006](#)

[Classics Department](#)

BA 1997 [Baylor University](#)

MA 2000 [University of Vermont](#)

PHD 2007 [Princeton University](#)

[Search Courses for Angeline Chiu](#)

- Education William Edwin Mierse
- Graduate College Professor of Art and Art History
- Honors College Professor of Classics
- School of Business Administration Appointed in 1988
- The Rubenstein School of Environment and Natural Resources Art and Art History Department  
Classics Department  
BA 1976 University of California Berkeley  
MA 1983 Brown University  
PHD 1987 Brown University  
Search Courses for William Mierse

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Robert Howard Rodgers  
Professor of Classics  
Appointed in 1979  
Classics Department  
BA 1966 Harvard University  
PHD 1970 Harvard University  
Search Courses for Robert Rodgers

---

Barbara Saylor Rodgers  
Professor of Classics  
Appointed in 1979  
Classics Department  
AB 1969 Brown University  
MA 1974 University of California Berkeley  
MA 1976 University of California Berkeley  
PHD 1978 University of California Berkeley  
Search Courses for Barbara Saylor Rodgers

---

Mark David Usher  
Associate Professor of Classics  
Chairperson of Classics  
Appointed in 2000  
Classics Department  
BA 1992 University of Vermont  
MA 1994 University of Chicago  
PHD 1997 University of Chicago  
Search Courses for Mark Usher

---

Brian Thomas Walsh  
Senior Lecturer of Classics  
Appointed in 2001  
Classics Department

BA 1989 [Boston College](#)

MA 1992 [Fordham University](#)

PHD 2001 [Fordham University](#)

[Search Courses for Brian Walsh](#)

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Communication Sciences Department

## Communication Sciences Department

### Contact Information

*University of Vermont  
 Communication Sciences Department  
 Pomeroy Hall  
 489 Main St  
 Burlington, VT 05405-0130*

Phone: (802) 656-3861  
 Fax: (802) 656-2528  
 Email: [communication.sciences@uvm.edu](mailto:communication.sciences@uvm.edu)

[Web Site](#)

### Affiliations

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## Communication Sciences (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Departmental Requirements: 80, 90, 94, 101, 160 or 162, 164, 208, 262, 271, 272, 281.

Additional Requirements: Biology 4; Psychology 1, 161; Statistics 111 or 141; and one physical science course with lab from Physics, Chemistry, Geology, or Astronomy.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Communication Sciences (Undergraduate Minor)

### Specific Requirements

[CMSI 80](#), [90](#), [94](#), [101](#), [164](#), [208](#).

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Courses in Communication Sciences

### CMSI 001 - Elem American Sign Language 1

Fundamentals of expression and understanding of American Sign Language, including grammar, facial markers, body classifiers, vocabulary, and fingerspelling. Elements of Deaf Culture are also explored.

Credits: 3.

### CMSI 002 - Elem American Sign Language II

Continuation of fundamentals of expression and understanding of American Sign Language, including grammar, facial markers, body classifiers, vocabulary, and fingerspelling. Elements of Deaf Culture are also explored. Prerequisites: CMSI 1 or equivalent experience.

Credits: 3.

### CMSI 020 - Intro to Disordered Comm

Survey of language, speech, and hearing disorders, emphasizing the importance of understanding such disorders as a part of the fuller understanding of human behavior.

Credits: 3.

### CMSI 051 - Intermediate Sign Language

Continuation of 1, 2 designed to foster further development of proficiency in American Sign Language and appreciation of Deaf Culture. Prerequisites: CMSI 2, or equivalent experience.

Credits: 3.

### CMSI 080 - Introduction to Linguistics

Introduction to biological, cognitive, and cultural bases of human communication through language, and to modern linguistic theory. Assignments provide opportunities for critical thinking and writing.

Education Credits: 3.

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
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Natural Resources

**CMSI 090 - Phonetics**

Linguistic, acoustic, and articulatory phonetics applied to the description of speech.

Stresses use of the International Phonetic Alphabet with English, foreign languages, and disordered speech.

Credits: 3.

**CMSI 094 - Dev of Spoken Language**

Speech and language acquisition interpreted in light of current learning and cognitive theory, linguistic theory, and methods of linguistic analysis.

Credits: 3.

**CMSI 095 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**CMSI 096 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**CMSI 101 - Speech & Hearing Science**

Structure and function of the respiratory, phonatory, articulatory, and hearing systems, coupled with models of speech and hearing as part of human communication.

Credits: 4.

**CMSI 125 - Clinical Experience**

A supervised exposure to clinical practice in speech-language pathology. Students gain experience as assistants in the University speech-language clinic.

Prerequisite: Six hours in Communication Sciences.

Credits: 3.

**CMSI 126 - Clinical Experience**

A supervised exposure to clinical practice in speech-language pathology. Students gain experience as assistants in the University speech-language clinic.

Prerequisite: Six hours in Communication Sciences.

Credits: 3.

**CMSI 160 - Intercultural Communication**

Exploration of communication between individuals of different races, socioeconomic status, ethnic groups, genders, and occupations. Emphasis on culturally-based misunderstanding, conflict, and resolution.

Credits: 3.

**CMSI 162 - American English Dialects**

variation. Cross-listed with ENGS 103. Class will examine dialects of American

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English and the methodology of dialectology with focus on Vermont speech and the social meaning of dialect

Credits: 3.

**CMSI 164 - Structure of English Language**

Cross-listed with ENGS 101. Using descriptive linguistic theory, this course examines basics of English grammar with emphasis on hands-on examples. Also includes exploration of politicization of English grammar. Prerequisites: 3 hours English or CMSI.

Credits: 3.

**CMSI 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 0-3.

**CMSI 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-3.

**CMSI 197 - Readings & Research**

Instructor permission.

Credits: 1-6.

**CMSI 198 - Readings & Research**

Instructor permission.

Credits: 1-6.

**CMSI 208 - Cognition & Language**

Study of cognition and language in terms of mental representation models; contemporary models of memory, as well as capacity theories of language comprehension and production. Prerequisite: PSYC 109, 161 or instructor permission. Cross-listed: PSYC 208.

Credits: 3.

**CMSI 262 - Measurement of Comm Processes**

Introduction to the scientific method and measurement principles used in group and single-case research on communication and as applied to persons with communication disorders. Prerequisites: CMSI 80, 101; Statistics 111 or 141. UG only.

Credits: 4.

**CMSI 271 - Introduction to Audiology**

Survey of the process of hearing and the nature and causes of hearing impairment. Examination of hearing assessment, including pure-tone, speech and immittance audiometry. Prerequisites: CMSI 101 or instructor permission.

Credits: 4.

**CMSI 272 - Hearing Rehabilitation**

Examination of impact of hearing loss on communication and management. Survey of remediation strategies, including speechreading, auditory training, hearing aids, cochlear implants and assistive devices. Prerequisites: CMSI 271 or instructor permission.

Credits: 3.

**CMSI 273 - Internship in Audiology**

Seniors interested in practical experience can intern at the UVM Audiology Clinic. Exposure to diagnostic and rehabilitative procedures will increase clinical confidence prior to graduate studies. Prerequisites: CMSI 271, CMSI 272 (or concurrent enrollment), 3.0 or greater GPA and instructor permission.

Credits: 3.

**CMSI 274 - Culture of Disability**

Focus on theoretical questions of how societies understand disability and its consequences for social justice, by examining the biological, social, cultural, political, and economic determinants in the societal construction of disability. Prerequisites: Junior, Senior or graduate standing. Cross-listing: EDSP 274.

Credits: 3.

**CMSI 281 - Cognitive Neuroscience**

Biology course, such as BIOL 4. Not for graduate credit. The structure and organization of the human central nervous system as related to higher cognitive and linguistic behaviors. Pre/corequisites: a college level Human

Credits: 3.

**CMSI 283 - Swallowing Disorders**

Introduction to normal and disordered swallowing function across the life span including etiologies, signs/symptoms of dysphagia, diagnostic procedures and treatment within an interdisciplinary model. Prerequisites: Nine hours in Communication Sciences or instructor's permission.

Credits: 3.

**CMSI 284 - Augmentative Communication**

An introduction to development and selection of augmentative/alternative communication strategies and systems for persons with severe communication challenges. Prerequisites: Nine hours in Communication Sciences or instructor's permission.

Credits: 3.

**CMSI 285 - Collab Intervntn Schl Settings**

Introduction to a transdisciplinary approach to collaborative, curriculum-based assessment and intervention for students with special needs in school settings. Prerequisites: Graduate standing, or Undergraduate by instructor permission.

Credits: 3.

**CMSI 287 - Early Lang&Communicat'n Interv**

Research in normal and disordered language, cognition, and social development is applied to interventions for children, birth to age 5, with language and communication problems. Prerequisite:CMSI 94.

Credits: 3.

**CMSI 291 - Clinical Study**

Supervised practicum experiences with children and adults presenting disorders of speech, hearing, and language. Prerequisite: Permission

Credits: 1-2.

**CMSI 292 - Clinical Study**

Supervised practicum experiences with children and adults presenting disorders of speech, hearing, and language. Prerequisite:Permission

Credits: 1-2.

**CMSI 293 - Seminar**

Prerequisite: Instructor's permission. Variable credit.

Credits: 1-3.

**CMSI 294 - Seminar**

Prerequisite: Instructor's permission. Variable credit.

Credits: 1-3.

**CMSI 295 - Advanced Special Topics**

Advanced Special Topics Advanced courses of seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. UG only.

Credits: 0-3.

**CMSI 296 - Advanced Special Topics**

UG only.

Credits: 0-3.

**CMSI 298 - Senior Seminar**

Credits: 3.

**CMSI 299 - Autism Spect Dis:Assess&Interv**

Assessment and intervention considerations in communication, social interaction and play, selection

Credits: 3.

**CMSI 310 - Clinic Preparation&Management**

Principles of behavioral observation, analysis and modification as they apply to the assessment and remediation of communication disorders. Prerequisite:permission

Credits: 3.

**CMSI 311 - Intradsc Sem Neurodev Disabil I**

Seminar exploring interdisciplinary process, collaborative teaming, cultural competence and family-centered care as they relate to children and families

affected by neurodevelopmental and related disabilities. Pre/co-requisites: Permission of Instructor. PSYC 380, MVSR 381, SWSS 380.

Credits: 3.

**CMSI 312 - Intrdisc Sem Neurodev Disabil 2**

Seminar exploring interdisciplinary process, collaborative teaching, cultural competence and family-centered care as they relate to children and families affected by neurodevelopmental and related disabilities. Pre/co-requisites: Permission of Instructor. Cross-listings EDSP 295, GRNU 296, PSYC 380, MVSR 381, SWSS 380.

Credits: 3.

**CMSI 371 - Audiolog Assess:Spch-Lang Path**

Examination of basic hearing parameters designed for SLPs. Orientation to nature and causes of hearing impairment; assessment procedures and rationales; hearing screening and counseling/management

Credits: 3.

**CMSI 372 - Mgmt&Habil/Child w/Hearing Imp**

Survey effects of hearing impairment on children's communication, academic and psychosocial development. permission. Orientation to amplification, assistive devices, managing listening environments, auditory training, and educational planning. Prerequisites: CMSI 271 or 371 or instructor

Credits: 3.

**CMSI 380 - Rsch Methods in Comm Disorders**

research proposal. Empirical research methodology as applied to the study of normal and deficient speech, language, and hearing processes. Students analyze data statistically and write a

Credits: 3.

**CMSI 381 - Advanced Readings**

Readings, with conferences, intended to contribute to the programs of graduate students in phases of communication science and disorders for which formal courses are not available. Credit as arranged, up to three hours each semester.

Credits: 1-3.

**CMSI 382 - Advanced Readings**

Readings, with conferences, intended to contribute to the programs of graduate students in phases of communication science and disorders for which formal courses are not available. Credit as arranged, up to three hours each semester.

Credits: 1-3.

**CMSI 383 - Seminar Lang/Lrng Disabilities**

Assessment and intervention issues for school-age children and adolescents with language learning disabilities are discussed emphasizing research to practice and oral language and literacy connections. Prerequisite: Permission of instructor or graduate standing.

Credits: 3.

**CMSI 384 - Articulation-Phonological Dis**

Etiology, diagnosis, pathology, and habilitation and rehabilitation of articulation of speech. Prerequisite: Graduate Standing.

Credits: 3.

**CMSI 385 - Voice Disorders**

Study of normal and abnormal laryngeal anatomy and physiology as they relate to diagnoses and treatment of a wide variety of vocal pathologies. Prerequisite: CMSI 101 or instructor permission.

Credits: 3.

**CMSI 386 - Adult Neuropathologies**

Etiology, pathology, diagnosis, and principles of rehabilitation of CNS pathologies affecting communication. Emphasis on motor speech disorders and cognitive consequences of traumatic brain injury. Prerequisites: CMSI 281, 389 or equivalent.

Credits: 3.

**CMSI 387 - Language Disorders**

94.

Credits: 3.

**CMSI 388 - Stuttering**

Stuttering Boot Camp, admission to CMSI graduate Study of adult and child fluency disorders which focuses upon symptomatology, etiology, diagnosis, and rehabilitation of stuttering patients. Prerequisite: program.

Credits: 3.

**CMSI 389 - Aphasia in Adults**

Study of linguistic and cognitive impairments associated with stroke and other types of neuropathologies in the adult patient. Emphasis on rehabilitation strategies, principles, and procedures. Prerequisite: CMSI 281.

Credits: 3.

**CMSI 391 - Master's Thesis Research**

Credits: 1-6.

**CMSI 392 - Non Thesis Research**

Credits: 1-6.

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Computer Science Department

## Computer Science Department

### Contact Information

University of Vermont  
 Computer Science Department  
 351 Votey Building  
 33 Colchester Avenue  
 Burlington, VT 05405-0156

Phone: (802) 656-3330

Fax: (802) 656-0696

Email: [Computer.Science@uvm.edu](mailto:Computer.Science@uvm.edu)

[Web Site](#)

### Overview

Computer Science is a multi-faceted discipline requiring the creativity of an artist, the problem-solving ability of a mathematician, the experimental method of a scientist, and the technical skills of an engineer. There are exciting opportunities in many industries, including: communications, health care, manufacturing, finance, entertainment, human services, education, and transportation.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#). [College of Engineering and Mathematics](#).

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## Computer Science Department: Academic Offerings

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Computer Science Department > Academic Offerings > Computer Science (B.A.)

## Computer Science (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CS 21](#), [CS 26](#), [CS 100](#), [CS 101](#), [CS 103](#), [CS 104](#), [CS 224](#) or [CS 243](#), [CS 292](#), and three additional computer science courses at the 200-level or above, for at least nine additional credits, not more than three credits of which may be independent study; [MATH 19](#) + [MATH 20](#) or [MATH 21](#) + [MATH 22](#) ([MATH 21](#) + [MATH 22](#) are recommended), [MATH 54](#); [STAT 153](#); the distribution requirement in natural science must be satisfied, and it is recommended that this requirement be fulfilled with a two-semester laboratory science sequence.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Engineering and Mathematics](#).
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## Computer Science (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 124 credits (122, if the student is exempt from PEAC) are required as follows:

- Computer Science (41 credits): [CS 021](#), [CS 026](#), [CS 100](#), [CS 101](#), [CS 103](#), [CS 104](#), [CS 201](#), [CS 224](#) or [CS 243](#), [CS 292](#), plus fifteen additional credits (five courses) of 200-level courses (not more than three credits of which may be independent study);
- Mathematics (17 credits): [MATH 021](#), [MATH 022](#), [MATH 054](#); two of [MATH 121](#), [MATH 124](#), [MATH 173](#), [MATH 271](#);
- Statistics (3 credits): [STAT 153](#)
- Science (13 credits): advisor-approved science electives in Astronomy, Anatomy and Neurobiology, Biology, Botany, Chemistry, Environmental Science, Geology, Microbiology and Molecular Genetics, Nutrition and Food Sciences, Physics, [EE 003](#) or [EE 004](#), and to include one laboratory science sequence selected from the following:
  - Biology: [BIOL 001](#) or [BIOL 011](#), [BIOL 002](#) or [BIOL 012](#)
  - Chemistry: [CHEM 031](#) or [CHEM 035](#), [CHEM 032](#) or [CHEM 036](#)
  - Physics: [PHYS 031](#) (with [PHYS 021](#)), [PHYS 42](#) (with [PHYS 22](#))
- Technical Electives (6 credits): Two courses in approved technical electives. See the department for a current list of approved courses.
- Writing (3 credits): [ENGS 001](#), [ENGS 050](#), or [ENGS 053](#)
- HSS (18 credits): Six courses in social science, humanities, and fine arts electives. At least six credits must be chosen from the "Social Science Group" and at least

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

six credits from the "Humanities and Fine Arts Group," as defined below.

- Social Science Group: ALANA U.S. Ethnic Studies, Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, Women's Studies, or other advisor-approved social science electives.
- Humanities and Fine Arts Group: Art, Classics, Film, Music, Philosophy, Religion, Speech, Theatre, language or literature, or other advisor-approved humanities or fine arts electives.
- In addition, students must either complete a one credit "Race and Culture" course or ensure that at least one HSS elective also satisfies the "Non-European Culture" or "Race Relations and Ethnicity Requirements," as specified under General Requirements in the College of Arts and Sciences section of this catalogue.

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- Non-CS Electives (9 additional credits): advisor-approved free electives (excluding CS and PEAC);
- Free Electives (12 additional credits): advisor-approved free electives (excluding PEAC);
- Physical Education - PEAC (2 credits): see the "Academic Policies" section of this catalogue for exceptions; and
- Students must complete a university approved minor (excluding computer science); courses used to fulfill other requirements may be used to satisfy minor requirements.

Note: No grade below a C- in any computer science course will be accepted, except as free elective credit.

## Curriculum

### Possible Curriculum

A sample course sequence can be found on the [Computer Science department web site](#) .

## Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#). [College of Arts and Sciences](#).
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## Computer Science (Undergraduate Minor)

### Specific Requirements

A Computer Science Minor consists of 18 credits in computer science to include [CS 100](#) or [CS 103](#), [CS 104](#), and three additional credits at the 100 level or above. Some Computer Science courses require additional prerequisites.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Engineering and Mathematics](#).
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## Computer Science: Computer Science and Information Systems (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 125 credits (123, if the student is exempt from PEAC) are required as follows:

- Computer Science (35 credits): [CS 014](#), [CS 021](#), [CS 026](#), [CS 100](#), [CS 101](#), [CS 104](#), [CS 148](#), [CS 292](#), plus three additional credits (one course) at the 100-level or above ([CS 103](#) is recommended for students who wish to pursue graduate study in computer science), plus nine additional credits (three courses) at the 200-level; no more than three credits may be independent study;
- Business Administration (29 credits): [BSAD 060](#), [BSAD 061](#), [BSAD 120](#), [BSAD 132](#), [BSAD 141](#), [BSAD 143](#), [BSAD 150](#), [BSAD 173](#), [BSAD 180](#);
- Economics (6 credits): [EC 011](#), [EC 012](#)
- Mathematics (9 to 11 credits): [MATH 019/MATH 020](#), or [MATH 021/MATH 022](#) (recommended sequence), [MATH 054](#)
- Statistics (3 credits): [STAT 153](#)
- Science (8 to 10 credits): One laboratory science sequence, selected from the following three:
  - Biology: [BIOL 001](#), [BIOL 002](#)
  - Chemistry: [CHEM 031](#), [CHEM 032](#)
  - Physics: [PHYS 031](#) (with [PHYS 021](#)), [PHYS 042](#) (with [PHYS 022](#))
- Writing (3 credits): [ENGS 001](#), [ENGS 050](#), or [ENGS 053](#);
- HSS (18 credits): Six courses in social science, humanities, and fine arts electives.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

At least six credits must be chosen from the "Social Science Group" and at least six credits from the "Humanities and Fine Arts Group," as defined below.

- Social Science Group: ALANA U.S. Ethnic Studies, Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, Women's Studies, or other advisor-approved social science electives.
- Humanities and Fine Arts Group: Art, Classics, Film, Music, Philosophy, Religion, Speech, Theatre, language or literature, or other advisor-approved humanities or fine arts electives.
- In addition, students must either complete a one credit "Race and Culture" course or ensure that at least one HSS elective also satisfies the "Non-European Culture" or "Race Relations and Ethnicity Requirements," as specified under General Requirements in the College of Arts and Sciences section of this catalogue.

## Policies and General Information

- Free Electives (12 additional credits): advisor-approved free electives (excluding PEAC);
- Physical Education - PEAC (2 credits): see the "Academic Policies" section of this catalogue for exceptions.

## Faculty and Administration

No grade below a C- in any computer science or business administration course will be accepted, except as free elective credit.

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### Curriculum

### Possible Curriculum

A sample course sequence can be found on the Computer Science department [web site](#) .

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## Courses in Computer Science

### CS 002 - MS Office: Beyond the Basics

Word documents looking dull? Excel charts lacking something? PowerPoint slides fizzling? All this and more is covered. Learn more than just the basics.

Credits: 3.

### CS 003 - Concepts of Computer Systems

Introduction to computer systems, components, system software, editors, utilities and language processors, programming, problem solving, applications. May not be taken for credit concurrently with, or following receipt of credit for, any CS course numbered higher than CS 003. Prerequisite: Two years high school algebra.

Credits: 3.

### CS 005 - Introductory Special Topics

Prerequisite: Instructor permission. Hours variable. May not be taken for credit after any Computer Science course numbered CS 016 or higher.

Credits: 0-3.

### CS 008 - Introduction: WWW Design (2-2)

site.

Credits: 3.

### CS 014 - Visual Basic Programming

Programming in the MS Windows environment using forms,

Credits: 3.

### CS 016 - Prog MATLAB Engineers&Science

and scientific applications using MATLAB. Prerequisite: Problem solving, computer programming, and the use of standard numerical methods, visualization

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and systems thinking in the context of engineering Concurrent enrollment in Math 20 or 22.

Credits: 4.

### **CS 019 - Introduction to Programming**

A gentle introduction to computer programming using Java Applets on web pages. Topics include selection, repetition, functions, objects, event-driven programming, arrays, inheritance, GUI design. Pre/co-requisites: No credit after CS 21 or higher.

Credits: 3.

### **CS 021 - Computer Programming I**

Introduction to algorithmic problem solving. Designed to provide a foundation for further studies in computer science. Credit not given for more than one in the pair CS 11, 21. Prerequisite: Math. 10 or a strong background in secondary school algebra and trigonometry.

Credits: 4.

### **CS 026 - Computer Programming II**

Introduction to more advanced programming concepts that provide a foundation for further study in computer science. Topics include data structures and algorithms, concepts of style, design, documentation, testing and debugging techniques. Prerequisites: 21.

Credits: 3.

### **CS 031 - Computer Programming II: C**

Credits: 3.

### **CS 032 - Puzzles, Games & Algorithms**

Introductory computer science through exploration and analysis of mathematical puzzles and games, and the algorithms that handle them.

Credits: 3.

### **CS 042 - Dynamic Data on the Web**

Data is everywhere; Learn to collect, organize, and classify it. Students will design and create tables, queries and reports on the web using introductory programming.

Credits: 3.

### **CS 095 - Special Topics**

Prerequisite: Instructor's permission.

Credits: 1-4.

### **CS 100 - Object-Oriented Programming**

Object-oriented software analysis, design, and programming using a modern object-oriented programming environment. Topics include encapsulation, information hiding, inheritance, and polymorphism. Prerequisite: 26.

Credits: 3.

**CS 101 - Computer Organization**

Introduction to computer system organization including performance, assembly language, machine-level data representation, arithmetic for computers, processor datapath control, memory, and input/output. Prerequisite: CS 026.

Credits: 3.

**CS 103 - Programming Languages**

Systematic treatment of principles underlying the features and implementation of programming languages. Contrast of traditional procedural languages and at least one nontraditional language. Prerequisite: CS 026.

Credits: 3.

**CS 104 - Data Structures**

MATH 052 or MATH 054.

Credits: 3.

**CS 148 - Database Design for the Web**

Design and implementation of a relational database model using SQL and PHP. Typical project includes creation of ecommerce shopping site. Prerequisites: One semester of programming,

Credits: 3.

**CS 192 - Independent Service & Teaching**

Independently designed project or pedagogical experience that benefits the University or the Community under the direction of a CS faculty member. Requires final presentation. Pre/co-requisite: Department

Credits: 1-3.

**CS 195 - Special Topics**

Prerequisite: Instructor's permission.

Credits: 1-6.

**CS 201 - Operating Systems**

Supervisory and control software for multiprogrammed computer systems. Processes synchronization, interprocess communication, scheduling, memory management, resource allocation, performance evaluation, object-oriented systems, case studies. Prerequisites: 103, 104.

Credits: 3.

**CS 202 - Compiler Construction**

Practice in design and implementation of translators for ALGOL-like languages. Regular and context-free grammars, parsing, code generation for stack and register machines. Interpreters. Run-time storage administration for block-structured languages. Prerequisites: 103, 243.

Credits: 3.

**CS 204 - Database Systems**

Techniques for processing very large collections of data. Secondary storage. Database design and management. Query languages and optimization. Database

recovery. Prerequisites: 101, 104; 201 recommended.

Credits: 3.

### **CS 205 - Software Engineering**

Treatment of software engineering problems and principles, including documentation, information hiding, and module interface specification syntax and semantics. Requires participation in a team project. Students who receive credit for 205 may not receive credit for 208 or 209.

Credits: 3.

### **CS 208 - Software Requirements&Design**

Project management, requirements for software products, design methodologies and formal and informal notations describing designs. Includes developing requirements and design for a substantial software product. Credit not awarded for more than one of 205 and 208. Prerequisites: CS 100, CS 104.

Credits: 3.

### **CS 209 - Software Implement&Verificat'n**

Prerequisites: CS 100, CS 104. Covers advanced program development methodologies, software performance measuring and tuning and the verification and validation of software. Includes a significant implementation and evaluation project. Credit not awarded for more than one of 205 and 209.

Credits: 3.

### **CS 222 - Computer Architecture**

Architecture of computing systems. Control unit logic, input/output processors and devices, asynchronous processing, concurrency, parallelism, and memory hierarchies. Prerequisite: 101.

Credits: 3.

### **CS 224 - Analysis of Algorithms**

Introduction to both analytical and experimental techniques in algorithm analysis. Basic algorithm design strategies. Introduction to complexity theory. Prerequisites: 103, 104. Math. 173 recommended.

Credits: 3.

### **CS 228 - Human-Computer Interaction**

The design, implementation and evaluation of user interfaces for computers and other complex, electronic equipment. Includes a significant project.

Credits: 3.

### **CS 231 - Bioinformatics**

MMG 102 desirable. Crosslisting MMG 231. Introduction to current topics in bioinformatics. Applications may include sequence alignment, dynamic programming, hidden Markov models, phylogenetics trees, microarray data analysis, genomics, and proteomics. Prerequisites: STAT 151, CS 26, and

Credits: 3.

### **CS 243 - Theory of Computation**

Introduction to theoretical foundations of computer science. Models of computation. Church's thesis and noncomputable problems. Formal languages and automata. Syntax and semantics. Prerequisite: 104. (Same as Math 243).  
Credits: 3.

**CS 251 - Artificial Intelligence**

Introduction to methods for realizing intelligent behavior  
Credits: 3.

**CS 256 - Neural Computation**

convergence theorems, backpropagation, reinforcement Introduction to artificial neural networks, their computational capabilities and limitations, and the algorithms used to train them. Statistical capacity, learning, generalization. Prerequisites: Math 124 (or 271), Stat 153 or equivalent, computer programming. Cross-listed: STAT 256  
Credits: 3.

**CS 260 - Parallel Algorithms&Prog Tech**

Taxonomy of parallel computers, basic concepts for parallel computing, effectiveness and scalability, parallel algorithms for variety of problems, message-passing programming paradigm and data-parallel languages. Prerequisite: 103, 104. MATH 173 and MATH 124 recommended.  
Credits: 3.

**CS 265 - Computer Networks**

Introduction to the theoretical and pragmatic principles of  
Credits: 3.

**CS 266 - Network Security&Cryptography**

Security and secrecy in a networked environment. Cryptography: public and private key. Authentication: trusted agents, tickets. Electronic mail and digital signatures. Privacy and national security. Prerequisites: 104, Math. 124 or 271.  
Credits: 3.

**CS 274 - Computer Graphics**

removal, rendering techniques. Prerequisite: 104, Math. Graphical representation of two- and three-dimensional objects on color raster displays. Line generation, region filling, geometric transformations, hidden line and surface 121, Math. 124 or 271.  
Credits: 3.

**CS 283 - Undergraduate Honors Thesis**

See description of Honors Thesis Program in the College of EM section of this catalog.  
Credits: 3.

**CS 284 - Undergraduate Honors Thesis**

See description of Honors Thesis Program in the College of EM section of this catalog.

Credits: 3.

**CS 292 - Senior Seminar**

Oral presentations that pertain to the ethical practice of computer science in government, industry, and academia. Topics may include computer security, copyright, and patent law. Prerequisite: Senior standing in Computer Science.

Credits: 1.

**CS 294 - Independent Readings&Research**

Independent readings and investigation under the direction of faculty member.

Prerequisite: Department permission.

Credits: 1-6.

**CS 295 - Special Topic:Computer Science**

Subject will vary from year to year. May be repeated for credit.

Credits: 1-6.

**CS 296 - Special Topics:Computer Sci**

Credits: 1-6.

**CS 303 - Adv Top:Prog Environ&Language**

Object-oriented, functional, or procedural programming languages, language design, parsing, translation, compilation, interpretation, programming and runtime environments. May be repeated for credit with instructor permission. Prerequisites: 103, 202.

Credits: 3.

**CS 316 - Adv Top:Computational Science**

Topics chosen from engineering and scientific applications, visualization, large-scale data analysis. May be repeated for credit with instructor permission.

Prerequisite: Varies by semester. Instructor permission required.

Credits: 3.

**CS 321 - Adv Top:Computer Architecture**

Topics from computer architecture, network architecture, array and vector processors, memory hierarchies. May be repeated for credit with Instructor permission. Prerequisite: CS 222.

Credits: 3.

**CS 331 - Adv Tpcs Database&Knwldg Sys**

Topics chosen from database design, knowledge based systems, object-oriented and relational systems, data models, knowledge representation. May be repeated for credit with Instructor permission. Prerequisite: CS 204, CS 224.

Credits: 3.

**CS 346 - Adv Top:Theory of Computation**

Topics from complexity theory, analysis of algorithms, formal languages, combinatorial and geometric algorithms, and theory of databases, networks, distributed algorithms. May be repeated with Instructor permission. Prerequisite:

CS 224, CS 243.

Credits: 3.

**CS 351 - Pattern Anyl&Artificial Intell**

Topics chosen from pattern analysis, clustering, neural networks, planning, natural language understanding. May be repeated for credit with instructor permission.

Prerequisites: CS 224, CS 351.

Credits: 3.

**CS 355 - Statistical Pattern Recongtrn**

Analysis of algorithms used for feature selection, density estimation, and pattern classification, including Bayes classifiers, maximum likelihood, nearest neighbors, kernels, discriminants, neural networks, and clustering. Prerequisites: Stat 241 or 251 or instructor permission.

Credits: 3.

**CS 361 - Adv Topics:Systems Software**

Topics chosen from operating systems, distributed or parallel software systems, real-time systems, experimental systems, software engineering. May be repeated for credit with Instructor permission. Prerequisite: CS 201, CS 222.

Credits: 3.

**CS 363 - Computer System Performance**

Topics chosen from models of computer and operating system performance and queuing systems. May be repeated for credit with Instructor permission.

Prerequisite: CS 201, STAT 151.

Credits: 3.

**CS 365 - Adv Top:Network Design&Anyl**

Topics chosen from network design, network protocols, network algorithms, and network performance. May be repeated for credit with Instructor permission.

Prerequisite: CS 224, CS 265.

Credits: 3.

**CS 374 - Computer Graphic&Visualization**

Topics chosen from computer graphics and visualization, such as rendering, hidden surface removal, animation, data visualization. May be repeated for credit with Instructor permission. Prerequisite: CS 224, CS 274.

Credits: 3.

**CS 381 - Seminar**

Presentations by students, faculty, and guest speakers on advanced topics in Computer Science. May be repeated

Credits: 1.

**CS 391 - Master's Thesis Research**

Credits: 1-18.

**CS 392 - Master's Project**

Prerequisite: Department permission.

Credits: 1-6.

**CS 394 - Independent Study**

Independent readings and investigation under the direction of a faculty member.

Prerequisite: Instructor permission.

Credits: 1-6.

**CS 395 - Special Topics**

Subject will vary from year to year. May be repeated for credit. Prerequisite:

Instructor permission.

Credits: 1-6.

**CS 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## Faculty for Computer Science Department

Jeffrey P. Bond

Professor of Microbiology and Molecular Genetics

Appointed in 1995

Computer Science Department

Microbiology and Molecular Genetics Department

BS 1983 University of Rochester

MS 1986 University of Rochester

PHD 1989 University of Rochester

Search Courses for Jeffrey Bond

Jeffrey Howard Dinitz

Professor of Computer Science

Professor of Mathematics and Statistics

Appointed in 1980

Computer Science Department

Mathematics and Statistics Department

BS 1974 Carnegie Mellon University

MS 1976 Ohio State University

PHD 1980 Ohio State University

Search Courses for Jeffrey Dinitz

Margaret Jean Eppstein

Associate Professor of Biology

Associate Professor of Computer Science

Chairperson of Computer Science

Appointed in 1983

- Education [Biology Department](#)
  - [Computer Science Department](#)
  - Graduate College BS 1978 [Michigan State University](#)
  - Honors College MS 1983 [University of Vermont](#)
  - School of Business Administration PHD 1997 [University of Vermont](#)
  - [Search Courses for Margaret Eppstein](#)
- 

- The Rubenstein School of Environment and Natural Resources Robert Michael Erickson  
Senior Lecturer of Computer Science  
Appointed in [1992](#)  
[Computer Science Department](#)  
BS 1987 [Castleton State College](#)  
MS 1991 [Clarkson University](#)  
[Search Courses for Robert Erickson](#)
- 

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- 
- Joel K. Furr  
Adjunct Instructor of Computer Science  
Appointed in [1998](#)  
[Computer Science Department](#)  
BA 1988 [University of Georgia](#)  
MPA 1990 [Virginia Polytechnic Institute and State University](#)  
[Search Courses for Joel Furr](#)
- 

- Mack George Gardner-Morse  
Lecturer of Computer Science  
Research Engineer for Orthopaedics and Rehabilitation  
Appointed in [1989](#)  
[Computer Science Department](#)  
[Orthopaedics and Rehabilitation Department](#)  
BSME 1982 [University of Vermont](#)  
MSME 1990 [University of Vermont](#)  
[Search Courses for Mack Gardner-Morse](#)
- 

- Gerald Paul Ghazi  
Adjunct Instructor of Computer Science  
Appointed in [1998](#)  
[Computer Science Department](#)  
BS 1981 [Rutgers University New Brunswick/Piscataway](#)  
JD 1987 [Seton Hill University](#)  
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- 

- David C. Gibson  
Research Assistant Professor of Computer Science

Appointed in [1999](#)  
[Computer Science Department](#)  
BMUS 1973 [Immaculate Heart](#)  
MED 1988 [Antioch University New England](#)  
EDD 1999 [University of Vermont](#)  
[Search Courses for David Gibson](#)

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Jackie Lynn Horton  
Senior Lecturer of Computer Science  
Appointed in [1998](#)  
[Computer Science Department](#)  
BS 1987 [University of Vermont](#)  
MS 1995 [University of Vermont](#)  
[Search Courses for Jackie Horton](#)

---

Byung S. Lee  
Professor of Computer Science  
Appointed in [1999](#)  
[Computer Science Department](#)  
BS 1980 [Seoul National University](#)  
MS 1982 [KAIST](#)  
PHD 1991 [Stanford University](#)  
[Search Courses for Byung Lee](#)

---

Alan Chi Ling  
Assistant Professor of Mathematics and Statistics  
Associate Professor of Computer Science  
Appointed in [1999](#)  
[Computer Science Department](#)  
[Mathematics and Statistics Department](#)  
BA 1994 [University of Waterloo](#)  
MA 1995 [University of Waterloo](#)  
PHD 1997 [University of Waterloo](#)  
[Search Courses for Alan Ling](#)

---

Eric D. Matthews  
Adjunct Instructor of Computer Science  
Appointed in [1998](#)  
[Computer Science Department](#)  
BS 1987 [Southern Illinois University Carbondale](#)  
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---

Gagan S. Mirchandani  
Professor of Computer Science  
Professor of Engineering  
Appointed in 1968  
Computer Science Department  
School of Engineering  
BSC 1953 North Wadia College  
BS 1958 Worcester Polytechnic Institute  
MS 1960 Syracuse University  
PHD 1968 Cornell University  
Search Courses for Gagan Mirchandani

---

Kurt Edmund Oughstun  
Professor of Computer Science  
Professor of Engineering  
Professor of Mathematics and Statistics  
Appointed in 1987  
Computer Science Department  
Mathematics and Statistics Department  
School of Engineering  
BA 1972 Central Connecticut State University  
MS 1974 University of Rochester  
PHD 1978 University of Rochester  
Search Courses for Kurt Oughstun

---

Kimberly Lantman Parker  
Lecturer of Computer Science  
Appointed in 1981  
Computer Science Department  
BS 1977 University of Vermont  
MS 1981 University of Vermont  
EDD 2003 University of Vermont  
Search Courses for Kimberly Parker

---

Alison Merel Pechenick  
Senior Lecturer of Computer Science  
Appointed in 1999  
Computer Science Department  
BSE 1978 Princeton University  
MS 2003 University of Vermont  
Search Courses for Alison Pechenick

---

George Francis Pinder

Professor of Computer Science  
Professor of Engineering  
Professor of Mathematics and Statistics  
Appointed in 1989  
[Computer Science Department](#)  
[Mathematics and Statistics Department](#)  
[School of Engineering](#)  
BSC 1965 [University of Western Ontario](#)  
PHD 1968 [University of Illinois Urbana-Champaign](#)  
[Search Courses for George Pinder](#)

---

Michael Radermacher  
Associate Professor of Computer Science  
Professor of Molecular Physiology and Biophysics  
Appointed in 2002  
[Computer Science Department](#)  
[Molecular Physiology and Biophysics Department](#)  
BS 1976 [University of Munich](#)  
PHD 1980 [University of Munich](#)  
[Search Courses for Michael Radermacher](#)

---

Christian Edward Skalka  
Associate Professor of Computer Science  
Appointed in 2002  
[Computer Science Department](#)  
BA 1991 [Saint John's College](#)  
MS 1997 [Carnegie Mellon University](#)  
PHD 2002 [Johns Hopkins University](#)  
[Search Courses for Christian Skalka](#)

---

Robert Raymond Snapp  
Associate Professor of Computer Science  
Associate Professor of Mathematics and Statistics  
Appointed in 1990  
[Computer Science Department](#)  
[Mathematics and Statistics Department](#)  
AB 1978 [University of California San Diego](#)  
PHD 1987 [University of Texas Austin](#)  
[Search Courses for Robert Snapp](#)

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Austin R. Troy  
Associate Professor of Computer Science  
Appointed in 2001

[Computer Science Department](#)  
[The Rubenstein School of Environment and Natural Resources](#)  
[Transportation Research Center](#)  
BA 1992 [Yale University](#)  
MF 1995 [Yale University](#)  
PHD 2001 [University of California Berkeley](#)  
[Search Courses for Austin Troy](#)

---

Ferdinando Villa  
Research Associate Professor of Computer Science  
Appointed in [2002](#)  
[Computer Science Department](#)  
MSC 1987 [University of Parma](#)  
PHD 1993 [University of Parma](#)  
[Search Courses for Ferdinando Villa](#)

---

Xiaoyang S Wang  
Adjunct Professor of Computer Science  
Appointed in [2003](#)  
[Computer Science Department](#)  
BS 1982 [Fudan University](#)  
MS 1985 [Fudan University](#)  
PHD 1992 [University of Southern California](#)  
[Search Courses for Xiaoyang Wang](#)

---

Xindong Wu  
Professor of Computer Science  
Appointed in [2001](#)  
[Computer Science Department](#)  
BE 1984 [Hefei University of Technology](#)  
MS 1987 [Hefei University of Technology](#)  
PHD 1993 [Edinburgh University](#)  
[Search Courses for Xindong Wu](#)

---

Jun Yu  
Associate Chairperson of Mathematics and Statistics  
Associate Director of Mathematics and Statistics  
Professor of Computer Science  
Professor of Mathematics and Statistics  
Appointed in [1990](#)  
[Computer Science Department](#)  
[Mathematics and Statistics Department](#)  
BS 1982 [Nanjing Institute of Meteorology](#)

PHD 1988 [University of Washington Seattle](#)

[Search Courses for Jun Yu](#)

---

Philip S. Yu

Research Professor of Computer Science

Appointed in [2002](#)

[Computer Science Department](#)

BS 1972 [National Taiwan University](#)

PHD 1978 [Stanford University](#)

MBA 1982 [New York University](#)

[Search Courses for Philip Yu](#)

---

Radoslaw R. Zakrzewski

Adjunct Assistant Professor of Computer Science

Appointed in [2002](#)

[Computer Science Department](#)

MS 1989 [Warsaw University of Technology](#)

PHD 1995 [Oregon State University](#)

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## Economics Department

### Contact Information

University of Vermont  
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 239 Old Mill  
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 Email: [Economics.Department@uvm.edu](mailto:Economics.Department@uvm.edu)

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## Economics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three credits in economics and three hours in mathematics as follows: [EC 011](#), [EC 012](#); [MATH 019](#); three courses from EC 20-160 or EC 194-196, two of which must be numbered 110 or higher; the methods and theory courses in Economics: [EC 170](#), [EC 171](#), [EC 172](#); and three Economics courses numbered 200 or higher. No more than three credits from [HON 218](#), [HON 219](#), [EC 291](#), [EC 292](#), [EC 297](#), [EC 298](#) may be applied towards the major. Students are urged to take MATH 19 early in the program.

### Affiliations

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## Economics (Undergraduate Minor)

### Specific Requirements

Eighteen credits including [EC 011](#), [EC 012](#); and four courses from EC 20-196, three of which must be from EC 110-196.

Minors are not required to take [MATH 019](#), although they will need to if they wish to take [EC 170](#), [EC 171](#) or [EC 172](#).

### Affiliations

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## Courses in Economics

### EC 011 - Principles of Macroeconomics

Introduction to economic concepts, institutions, and analysis, particularly as related to the economy as a whole.

Credits: 3.

### EC 012 - Principles of Microeconomics

Study of individual economic units with particular emphasis on market interactions among firms and households. Prerequisite: EC 011.

Credits: 3.

### EC 020 - Economic Problems

Exploration of a current economic issue. Topics vary and may include international trade, debts and deficits, environment, ethnicity, race and gender, and employment and work.

Credits: 3.

### EC 060 - Capitalism & Human Welfare

and the historical process of the ascendance, domination, and recent relative decline of the U.S. economy.

Credits: 3.

### EC 095 - Intro Special Topics

See Schedule of Courses for specific titles.

Credits: .5-3.

### EC 096 - Intro Special Topics

See Schedule of Courses for specific titles.

Credits: .5-3.

### EC 110 - American Economic History

Survey of the economic history of the U.S. from colonial origins through early 20th

- Education
- Graduate College
  - Honors College
- century, emphasizing economic and institutional changes and events promoting economic growth and development. 11, 12 or instructor permission. Prerequisite: 11, 12 or instructor permission.  
Credits: 3.

- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

### **EC 113 - Evolution of Capitalism**

Origins and development of capitalism; their social-economic institutions and their transference from 012, or Instructor permission.

Credits: 3.

### **EC 120 - Money and Banking**

Commercial and central banking with special attention given to the Federal Reserve system, monetary theory, and policy. Prerequisites: EC 011, EC 012 or Instructor permission.

Credits: 3.

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### **EC 130 - Public Policy**

Revenues and expenditures of federal, state, and local governments and intergovernmental relationships; the effects of expenditures and taxation upon individuals, business institutions, and the national economy. Prerequisite: EC 011, EC 012 or Instructor permission.

Credits: 3.

### **EC 133 - Economics Environmental Policy**

Investigation of the relationship of markets and government regulation to environmental quality. Alternative public policies to improve efficiency and equity will be evaluated. Prerequisites: EC 011, EC 012 or Instructor permission.

Credits: 3.

### **EC 135 - Law and Economics**

deterrence of crime. Prerequisite: EC 012. Economic analysis of the law, including property, contracts, torts and criminal law. Covers accident and malpractice compensation, product liability, breach of contract,

Credits: 3.

### **EC 140 - Economic Development**

Theories of economic growth applied to developing countries of the con-temporary world including the political and social determinants of economic progress.

Prerequisite: 11, 12 or instructor permission.

Credits: 3.

### **EC 143 - International Econ I: Trade**

Trade Theory, policy, and history of international trade patterns, terms of trade, protectionism, competitiveness, structural adjustment, and international aspects of microeconomics. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.

### **EC 146 - International Econ II: Finance**

Instructor permission.

Credits: 3.

**EC 150 - Labor Economics**

The economics of work, including wage determination, unemployment, productivity, discrimination, unions, and policy issues. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.

**EC 153 - African Amer in the US Economy**

An examination of historical and contemporary inequality between whites and blacks, focusing especially on labor, housing, and credit markets. Pre/co-requisites: EC 11 and EC 12.

Credits: 3.

**EC 156 - Economics of Gender**

Examines how gender differences produce different economic outcomes for women and men in work, leisure, earnings, poverty. Explores effectiveness of policies to overcome gender gaps. Prerequisite: 11, 12. Cross-listings: WST 185.

Credits: 3.

**EC 160 - Industrial Organization**

The structure, conduct, and performance of U.S. industry and appraisal of its economic efficiency and social impact, including governmental policies.

Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.

**EC 170 - Economic Methods**

for both 170 and any of following STAT courses: 111, Introduces statistical and mathematical methods for understanding economic literature including probability distributions, data sources, statistical concepts, and simple regression, taught using economic examples and applications. Prerequisite: Math 19. Credit not given 140, 141,143.

Credits: 3.

**EC 171 - Macroeconomic Theory**

Keynesian and other theories of the macroeconomy. Government policies in relation to the problems of employment, price stability, and growth. Prerequisite: Math. 19, 11, 12 or instructor permission.

Credits: 3.

**EC 172 - Microeconomic Theory**

Analysis of consumer demand, supply, market price under competitive conditions and monopolistic influences, and the theory of income distribution. Prerequisite: Math 19, 11, 12 or instructor permission.

Credits: 3.

**EC 194 - ISSP Thesis**

Design, research, and writing of a thesis on an economic topic for students in the

Integrated Social Sciences Program. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.

**EC 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 3.

**EC 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisites: EC 011, EC 012, or Instructor permission.

Credits: 1-3.

**EC 200 - Econometrics & Applications**

A combination of economic theory, mathematics, and statistics for testing economic hypothesis and developing economic models. Conceptual development and applications. Prerequisite: 170 and either 171 or 172.

Credits: 3.

**EC 210 - Sem A:Econ Hst, Systems&Ideas**

Economic History, Systems, and Ideas Topics on the evolution of economic systems and ideas. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.

**EC 220 - Sem B:Macroeconomics&Finance**

Macroeconomics and Finance Topics such as national economic policies, income, wealth and welfare, financial markets and the macroeconomy, central banking, and other issues concerning macroeconomics and money. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.

**EC 230 - Sem C:Microeconomics & Appl**

Microeconomics and its Applications Topics from microeconomics and fields applying it, such as game theory, health economics, environmental economics, the Vermont economy, and urban and regional economics. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.

**EC 240 - Sem D:Intern'l & Dev Economics**

International and Development Economics Topics such as the economies of countries or regions, international trade agreements, international debts, deficits and structural adjustment, and aspects of development economics. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.

**EC 250 - Sem E:Labor, Race & Gender**

Labor, Race, and Gender Topics such as labor-management relations, aspects of contemporary labor markets, discrimination, economics of education, and other

aspects of the economics of gender and race. Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.

**EC 260 - Sem F:Firms, Inst, & Growth**

Firms, Institutions, and Growth Topics such as antitrust and regulation, decision making and the firm, technological change and industrial policies, and the economics of growth.Prerequisite: 170 and either 171 or 172 or both.

Credits: 3.

**EC 291 - Macro and Micro Applications**

Combination of real-world work experience with a related independent study project or readings and research. Pre/corequisites: EC 170 and either EC 171,172, or both.

Credits: 3.

**EC 292 - Macro and Micro Applications**

Combination of real-world work experience with a related independent study project or readings and research. Pre/corequisites: EC 170 and either EC 171,172, or both.

Credits: 3.

**EC 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: 170 and either 171 or 172 or both.

Credits: 1-3.

**EC 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: 170 and either 171 or 172 or both.

Credits: 1-3.

**EC 297 - Readings & Research**

Independent study with permission of supervising professor prior to registration.Prerequisite: 170 and either 171 or 172 or both.

Credits: 1-3.

**EC 298 - Readings & Research**

Independent study with permission of supervising professor prior to registration.Prerequisite:

Credits: 1-6.

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Shirley Jean Gedeon

Associate Professor of Economics

Appointed in 1981

Economics Department

BA 1973 Northwestern University

MA 1976 University of Massachusetts Amherst

PHD 1982 University of Massachusetts Amherst

Search Courses for Shirley Gedeon

William Arch Gibson

Professor of Economics

Appointed in 1986

Economics Department

BS 1970 Georgia State University

MBA 1974 University of California Berkeley

PHD 1977 University of California Berkeley

Search Courses for William Gibson

Jane E. Knodell

Professor of Economics

Appointed in 1986

Economics Department

Provost Office

BA 1976 Stanford University

PHD 1984 Stanford University

Search Courses for Jane Knodell

Education

---

- Graduate College Marc Tsien-Yung Law  
Associate Professor of Economics  
Appointed in [2003](#)
  - Honors College [Economics Department](#)
  - School of Business Administration BA 1996 [University of British Columbia](#)  
MA 1997 [Queen's University](#)  
MA 2000 [Washington University in St Louis](#)
  - The Rubenstein School of Environment and Natural Resources PHD 2003 [Washington University in St Louis](#)  
[Search Courses for Marc Law](#)
- 

Policies and General Information

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Elaine Denise McCrate  
Associate Professor of Economics  
Appointed in [1985](#)  
[Economics Department](#)  
BA 1976 [Ohio State University](#)  
PHD 1985 [University of Massachusetts Amherst](#)  
[Search Courses for Elaine McCrate](#)

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Faculty and Administration

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Milton J. Nadworny  
Professor of Economics Emeritus  
[Economics Department](#)  
[Search Courses for Milton Nadworny](#)

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Saiyid Abu Rizvi  
Dean of the Honors College  
Professor of Economics  
Appointed in [1987](#)  
[Economics Department](#)  
[Honors College](#)  
AB 1981 [Vassar College](#)  
MA 1986 [The New School](#)  
PHD 1990 [The New School](#)  
[Search Courses for Saiyid Rizvi](#)

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Stephanie Seguino  
Professor of Economics  
Appointed in [1995](#)  
[Economics Department](#)  
BA 1978 [University of Maine](#)  
MA 1985 [University of Maine](#)  
PHD 1994 [American University](#)  
[Search Courses for Stephanie Seguino](#)

---

Richard A. Sicotte  
Associate Professor of Economics  
Appointed in [2002](#)  
[Economics Department](#)  
BA 1988 [American University](#)  
PHD 1997 [University of Illinois Urbana-Champaign](#)  
[Search Courses for Richard Sicotte](#)

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Sara Justine Solnick  
Associate Professor of Economics  
Chairperson of Economics  
Appointed in [2000](#)  
[Economics Department](#)  
BA 1986 [Harvard University](#)  
MS 1990 [Harvard University](#)  
PHD 1996 [University of Pennsylvania](#)  
[Search Courses for Sara Solnick](#)

---

Floria B. Thomson  
Lecturer I of Economics  
Appointed in [1993](#)  
[Economics Department](#)  
BA 1968 [University of Maryland College Park](#)  
MA 1971 [Yale University](#)  
ABD 1975 [McGill University](#)  
[Search Courses for Floria Thomson](#)

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Ross David Thomson  
Director of Integrated Social Science  
Professor of Economics  
Appointed in [1991](#)  
[Dean's Office, College of Arts and Sciences](#)  
[Economics Department](#)  
BA 1970 [Arizona State University](#)  
MPHI 1972 [Yale University](#)  
PHD 1976 [Yale University](#)  
[Search Courses for Ross Thomson](#)

---

Catalina M. Vizcarra  
Associate Professor of Economics  
Appointed in [2003](#)

Economics Department

BA 1989 Pontificia Universidad

BA 1992 Pontificia Universidad

MS 1995 University of Illinois Urbana-Champaign

PHD 2001 University of Illinois Urbana-Champaign

Search Courses for Catalina Vizcarra

---

Arthur George Woolf

Associate Professor of Economics

Appointed in 1980

Economics Department

BA 1973 Cornell University

MS 1979 University of Wisconsin Madison

PHD 1980 University of Wisconsin Madison

Search Courses for Arthur Woolf

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## English Department

### Contact Information

University of Vermont  
 English Department  
 400 Old Mill  
 94 University Place  
 Burlington, VT 05405-0114

Phone: (802) 656-3056  
 Fax: (802) 656-3055  
 Email: [Peter.Frechette@uvm.edu](mailto:Peter.Frechette@uvm.edu)

[Web Site](#)

### Affiliations

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## English (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three credits at the level of [ENGS 005](#) or above to include: [ENGS 086](#) ([ENGS 085](#) is recommended for first-year students planning to major in English) and at least twenty-one credits at or above 100-level, at least three of which must be from ENGS 201-282 (Senior Seminars). Of the credits above 100-level: (a) at least three credits must be in study of the English language (listed in Departmental offerings as Category A); (b) at least three credits must be in Ancient, Medieval and 16th and 17th Century Literary Traditions (listed in Departmental offerings as Category B); and (c) at least three credits must be in 18th and 19th Century Literature Traditions (listed in Departmental offerings as Category C); and (d) at least three credits must be in 20th and 21st Century Literary Traditions (listed in Departmental offerings as category D). OneWorld Literature course approved by the English Department may count toward the major; where appropriate, this course may be substituted for one course in the distribution categories. No more than nine credits of Advanced Writing (ENGS 117-120) shall count toward the major. No more than nine credits of Film Studies at any level shall count toward the major.

### Affiliations

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## English (Undergraduate Minor)

### Specific Requirements

Available only to students majoring in a program in the College of Arts and Sciences.

Eighteen credits including six credits taken from one of the following sequences: [ENGS 021/ENGS 022](#), [ENGS 023/ENGS 024](#), [ENGS 025/ENGS 026](#), [ENGS 027/ENGS 028](#), or [ENGS 085/ENGS 086](#); and a minimum of nine credits at the 100-level or above.

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## Film and Television Studies (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three hours, including at least six credits from among [ART 4](#), [FTS 7](#), [FTS 8](#), and [FTS 9](#); at least 21 hours at/or above the 100-level, including three of the following four: [FTS 121](#), [FTS 122](#), [FTS 123](#) and [FTS 124](#); and either [FTS 271](#) or [FTS 272](#). The remaining courses are to be selected in consultation with the FTS program director from courses in FTS (100-level FTS courses may be repeated for credit as courses vary) and from courses on media studies and production in other departments in the College of Arts and Sciences, such as [ART 139](#), [ART 140](#), [ART 143](#), [ART 144](#) and [ART 244](#); [ITAL 122](#); [SOC 43](#), [SOC 150](#) and [SOC 243](#); and [SPAN 290](#). (Students should consult the FTS course brochure and the Registrar's web page each semester for details about available courses.)

### Affiliations

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## Film and Television Studies (Undergraduate Minor)

### Specific Requirements

Available only to students majoring in a program in the College of Arts and Sciences.

Eighteen hours, including (a) at least one from [FTS 007](#), [FTS 008](#) or [FTS 009](#); (b) [FTS 121](#), [FTS 122](#), and [FTS 123](#); (c) six hours chosen from any other FTS offerings; [ART 4](#), [ART 139](#), [ART 140](#), [ART 143](#); Italian 122; [SOC 043](#), [SOC 150](#), [SOC 243](#); [SPAN 290](#) or additional courses approved by the Director of Film and Television Studies. (Students should consult the FTS course brochure and the Registrar's web page each semester for details about available courses.)

### Affiliations

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## Courses offered by the English Department

### Courses in English

#### ENGS 001 - Written Expression

A course in writing with some selected readings as examples of style and writing strategies.  
Credits: 3.

#### ENGS 004 - Engl for International Stdnts

Review of English grammar, practice in expository writing, vocabulary building, and improvement of speaking and listening skills. Prerequisite: Instructor permission.  
Credits: 3.

#### ENGS 005 - First Year Seminar

College of Arts and Sciences.  
Credits: 3.

#### ENGS 006 - First Year Seminar

Students to write in a variety of forms, styles, and genres in response to selected texts of literary or cultural significance. Themes, texts, and writing assignments to vary by section. Prerequisite: First-Year standing in College of Arts and Sciences.  
Credits: 3.

#### ENGS 011 - Types of Literature

Introduction to fiction, poetry, and drama - past and present, British and American.  
Credits: 3.

#### ENGS 012 - Introduction to Drama

Study of the play as a work of literature and as a dramatic experience.

Education

Continental, British, and American drama from all ages.

Credits: 3.

• Graduate College

**ENGS 013 - Introduction to Fiction**

Exploration of a variety of fictional forms, including the short story, the novella, and the novel.

Credits: 3.

• Honors College

• School of Business Administration

**ENGS 014 - Introduction to Poetry**

Examination of the forms of poetry, past and present, British and American. Provides a wide variety of perspectives on the poem.

Credits: 3.

• The Rubenstein School of Environment and Natural Resources

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**ENGS 021 - British Literature**

Survey of major figures in British literature such as Chaucer, Milton, Swift, Wordsworth, and Woolf.

Credits: 3.

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**ENGS 022 - British Literature**

Survey of major figures in British literature such as Chaucer, Milton, Swift, Wordsworth, and Woolf.

Credits: 3.

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**ENGS 023 - American Literature**

Survey of major American writers from the beginning of the 19th century to the present, such as Hawthorne, Melville, Dickinson, Twain, Hemingway, and Faulkner.

Credits: 3.

**ENGS 024 - American Literature**

Survey of major American writers from the beginning of the 19th century to the present, such as Hawthorne, Melville, Dickinson, Twain, Hemingway, and Faulkner.

Credits: 3.

**ENGS 025 - World Literature**

Survey in comparative literature dealing with the great writers of the world, to include Virgil, Dante, Goethe, and similar major figures. Students may not take for credit both ENGS 025 and ENGS 027, or both ENGS 026 and ENGS 028.

Credits: 3.

**ENGS 026 - World Literature**

Survey in comparative literature dealing with the great writers of the world, to include Virgil, Dante, Goethe, and similar major figures. Students may not take for credit both ENGS 025 and ENGS 027, or both ENGS 026 and ENGS 028.

Credits: 3.

**ENGS 027 - Lit of Western Trad: Int Humn**

Study of primary authors in the Western cultural tradition from Homer to the

modern period with particular reference to history, religion, and philosophy. Students may not take for credit both English 25 and 27; or both English 26 and 28. Prerequisites: Concurrent enrollment in Religion 27, 28. Prerequisites: Concurrent enrollment in Religion 27,  
Credits: 3.

**ENGS 028 - Lit of Western Trad: Int Humn**

Study of primary authors in the Western cultural tradition from Homer to the modern period with particular reference to history, religion, and philosophy. Students may not take for credit both ENGS 025 and ENGS 027; or both ENGS 026 and ENGS 028. Prerequisite: Concurrent enrollment in REL 027, REL 028, HST 013, HST 014; Integrated Humanities Program.  
Credits: 3.

**ENGS 040 - Science Fiction & Fantasy Lit**

Representative modern works of fantasy and science fiction, including works by Asimov, Tolkien, and Clarke. I, II.  
Credits: 3.

**ENGS 041 - Crime Story**

A study of the use of "crime situations" as the central plot device in various types of narrative: novels, short stories, films, and television series.  
Credits: 3.

**ENGS 042 - Women in Literature**

Survey of women's literary tradition in English. Focuses on the ways women have written, read, written about, and been represented in 19th and 20th century literature. Cross-listed with: WGST 076.  
Credits: 3.

**ENGS 050 - Expository Writing**

Writing and analysis of expository (nonfiction) essays. Prerequisite: Sophomore standing.  
Credits: 3.

**ENGS 053 - Writing: Poetry & Fiction**

Introductory course in techniques of writing poetry and short prose fiction. Classes organized around discussion of student work; weekly writing assignments. Prerequisite: Sophomore standing.  
Credits: 3.

**ENGS 057 - Race&Ethnicity Lit Stds: Intro**

Introductory courses addressing the representation and construction of "race" in literature and/or the contributions of ethnically diverse writers to the American culture. Focus and readings vary by instructor. May be repeated for credit.  
Credits: 3.

**ENGS 061 - Intro to African Literature**

Readings in African literature, concentrating on major human and political themes

and literary techniques.

Credits: 3.

**ENGS 065 - Survey of Folklore**

Basic concepts of folklore; development of the discipline; defining the major genres; role of folklore in modern society.

Credits: 3.

**ENGS 085 - Text&Context:1st Yr Prosp Mjrs**

Introduction to the critical work of close reading and close writing. Readings vary by section. Recommended for First-Year students planning to major in English.

Credits: 3.

**ENGS 086 - Critical Approaches to Lit**

Several theoretical approaches to literary study applied to specific texts. No prerequisite, but recommended only for students with Sophomore standing or First-Year students with Advanced Placement. Required of all English majors.

Credits: 3.

**ENGS 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**ENGS 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**ENGS 101 - Structure of English Language**

Descriptive study of modern American English. Pre/co-requisites: 3 hrs in English numbered 5-96; soph standing. Cross-listings: CMSI 164.

Credits: 3.

**ENGS 102 - Hist of English Language**

Sophomore standing.

Credits: 3.

**ENGS 103 - American English Dialects**

Class will examine dialects of American English and the methodology of dialectology with focus on Vermont speech and the social meaning of dialect variation. Pre/co-requisites: 3 hrs English numbered 5-96; soph standing. Cross-listings: CMSI 162.

Credits: 3.

**ENGS 104 - Tutoring Writing**

This course, for students who will be tutoring at the Writing Center, explores ways of responding to writers one-on-one. Permission required. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 105 - Exploring Writing Centers**

A continuation of ENGS 104, this course explores theoretical frameworks for writing centers and how they can shape ways tutors respond to writers. Pre/co-requisite: three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 107 - Topics in Comp & Rhetoric**

Topics vary by semester and by professor. Representative topics: U.S. Literacy Politics; Feminist Rhetorics. May repeat for credit with different content. Pre/co-requisites : 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 3.

### **ENGS 109 - Topics in Critical Theory**

Topics vary by semester and by professor. Representative topics: Psychoanalytic Criticism; Narrative Theory. May repeat for credit with different content. Pre/co-requisite : three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 110 - Gender & Sex in Lit Studies**

Courses address writing by women and LGBT authors and/or literary representations of gender and society. May be repeated for credit. Pre/co-requisites: 3 hrs English #ed 5-96; soph standing. Cross-listings: WST 110.

Credits: 3.

### **ENGS 111 - Race & Ethnicity in Lit Studies**

Topics address "race" and/or the contributions of ethnically diverse writers to American culture. Focus and readings vary. May repeat for credit with different content . Pre/co-requisites: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 112 - Topics in Cultural Studies**

Topics focus on theoretical problems and practices of the interdisciplinary study of culture. Representative topic: Comparative identities. May repeat for credit with different content. Pre/co-requisites: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 113 - Topics in Genre**

Topics focus on the theoretical problems of various kinds of writing. Representative topics: Narrative; Gothic; Sentimentality. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 114 - Topics in Writing**

Topics vary by semester and professor. Representative topics: Writing Literary Criticism; Reading and Writing Autobiography; Literary Journalism. May repeat for credit with different content. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 3.

### **ENGS 117 - Advanced Writing Non-Fiction**

In this workshop for experienced writers, students pursue projects of their own design, sometimes in accordance with a particular course theme such as "nature writing". Pre/co-requisites: ENGS 1,50, 53 or instructor's permission.

Credits: 3.

### **ENGS 118 - Advanced Writing: Fiction**

This upper-level course for fiction writers of proven ability employs a seminar/workshop format, with most classroom time devoted to manuscript discussion. Permission required. Pre/co-requisites: Sophomore standing and ENGS 53

Credits: 3.

### **ENGS 119 - Advanced Writing: Poetry**

This upper-level course for poets of proven ability employs a seminar/workshop format, with most classroom time devoted to manuscript discussion. Permission required. Pre/co-requisites: Sophomore standing and ENGS 53.

Credits: 3.

### **ENGS 120 - Writer's Workshop**

This workshop for serious writers of all levels of ability emphasizes autobiographical aspects of the writing of fiction, poetry, and personal essays. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 3.

### **ENGS 131 - Topics in Bible & Lit**

Examines literary, historical approaches to Bible and its influences. Topics include: Bible as Literature; Bible and Literary Imagination. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 133 - Chaucer**

Study of the principle works of Chaucer, emphasizing Chaucer's literary scope, talents, and position in medieval literature. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 134 - Topics in Medieval Literature**

Topics examining Medieval literature in various intellectual, historical, aesthetic contexts. Topics: Medieval Drama; Daughters of Mary/Daughters of Eve. May



repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 135 - Shakespeare**

Survey of Shakespeare's plays covering a range of genres (comedy, history, tragedy, romance, problem plays) drawn from the entire arc of Shakespeare's career. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 136 - Topics in Shakespeare**

Examines Shakespeare's works in intellectual, historical, aesthetic contexts. Topics: Shakespeare and Philosophy; Engendering Shakespeare; Shakespeare and Renaissance Drama. May be repeated for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 137 - Topics in Ren Lit & Culture**

Examines poetry, drama, and/or prose of English Renaissance in context of various movements of the Tudor-Stuart period. May repeat for credit with different content. Pre/co-requisites: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore

Credits: 3.

### **ENGS 138 - Milton**

Milton's major works in various intellectual, historical, and aesthetic contexts, with special attention to "Paradise Lost." Pre/co-requisite: Three hours in English courses numbered ENGS 005- ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 140 - Survey Brit Lit to 1700**

Works by major authors (including Chaucer, Shakespeare, and Milton) from the Anglo-Saxon period to early Enlightenment. Recommended for students considering graduate-level work in English. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 141 - Restoration & 18thC Literature**

Significant writers and dramatists from Behn and Dryden to Sheridan and Johnson. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

### **ENGS 142 - 18th Century British Novel**

Fiction from its origin through the 18th century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 143 - Topics:18C,19C Brit Lit & Cul**

Topics examining issues in 18th- and 19th-century British literature and culture. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 144 - Topics in Romanticism**

Late 18th- and early 19th-century English literature, for example, works by Wordsworth, the Shelleys, Keats. Occasional special topics. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 145 - Topics in Victorian Literature**

Primarily poetry, drama, non-fiction prose from 1832 to 1900, for example, Tennyson, the Brownings, the Rossettis, Wilde. Occasional special topics. May repeat with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 146 - 19th Century British Novel**

British fiction of the 19th century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 150 - Topics: Early American Studies**

Topics in literature and cultures of Americas from European conquest to 1800. Topics: Imagining America; Dissent in America. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 151 - 19th Century American Poetry**

American verse of various genres and modes by such authors as Whitman, Poe, Dickinson, Longfellow, and Sigourney. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 152 - 19th Century American Fiction**

Short stories, novellas, and novels by such writers as Cooper, Sedgwick, Poe, Hawthorne, Wilson, Melville, Stowe, James, Harper, Chesnut, Chopin, and Jewett. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 153 - 19th Century American Prose**

American non-fictional genres including essays, histories, slave narratives,

speeches, and sermons. Pre/co-requisite: Three hours in English courses numbered ENGS 005 and ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 156 - Topics:19C American Studies**

Interdisciplinary topics examining issues in 19th-century American culture. Representative topics include: Dissent in America, American Literary Cultures. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 158 - Topics:19C Women's Writing**

Various genres by 19th-century women. Topics: The Petticoat Empire; Women's Regionalist Fiction; 19th-century British and American Women's Writing. May repeat for credit with different content. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing. Cross-listings: WST 122.

Credits: 3.

**ENGS 159 - Afr Am Lit to Harlem Ren**

A survey of African American writings from the Colonial period to WW1. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 160 - Afr Am Lit & Cul Before 1900**

Topics in literature and culture of African Americans before 1900. Topics: Slavery and American Literature; Slavery's Shadows. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 161 - 20th-Century British Novel**

British novelists since 1900, including Forster, Conrad, Lawrence, Woolf, and other more recent writers. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 162 - 20th-Century Irish Literature**

Irish literature from 1890 to the present, emphasizing Joyce and Yeats. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 163 - Topics:20C American Studies**

Interdisciplinary topics examining issues in 20th-century American culture. Representative topics include: Poe's Children; The Literary Vampire; Jazz. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 164 - Modern Poetry**

Poetry from beginning of modern period to end of WWII, emphasizing Yeats, Eliot, Stevens, Auden, Frost, Williams. May be repeated for credit with different content. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 3.

**ENGS 165 - Modern Drama**

20-century drama by writers such as Ibsen, Shaw, Beckett, Brecht, Miller, Pinter, and Churchill. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 166 - Modern American Novel**

The tradition of the American novel through the mid-twentieth century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 167 - Topics in Modernism**

Topics vary by semester and by professor. Representative topics: Joyce. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 168 - Topics in Post-Modernism**

Interdisciplinary topics examining literature and cultures of the Post-Modern condition. Representative topics include: Magical Realism, Realism and Hyper-realism. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 169 - Queer Topics in 20C Lit & Cul**

courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 171 - Contemporary American Poetry**

American poetry since 1950 by writers such as Lowell, Bishop, Levine, Olds, Hayden, Harper. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 172 - Contemporary American Novel**

The American novel from the mid-twentieth century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 173 - Contemporary Short Fiction**

Among considerations of this discussion-oriented class will be strengths and weaknesses of short stories and story collections published from 1990 to present. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.

**ENGS 176 - Afr Am Lit since Harlem Ren**

Survey of the various literary traditions of African Americans during the 20th century. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096 ; Sophomore standing.  
Credits: 3.

**ENGS 177 - Topics in 20C Afr Am Lit & Cul**

Interdisciplinary topics in African American literature and culture. Representative topics include: The Harlem Renaissance and Negritude; Publishing Blackness. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.

**ENGS 178 - Literature of Vermont**

standing. Cross-listed with: VS 160.  
Credits: 3.

**ENGS 179 - Topics in African Literature**

standing.  
Credits: 3.

**ENGS 180 - Topics in Canadian Literature**

Topics vary by semester and by professor. Representative topics: The Development of a National Literature. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.

**ENGS 181 - Topics in Caribbean Literature**

Topics vary by semester. Topics: Introduction to Anglophone Caribbean Literature; Contemporary Caribbean Women Writers; History of Caribbean Novel. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.

**ENGS 182 - Colonial/Post-Col World Lit**

Topics vary by semester. Representative topics: Contemporary Writing from the Non-Western World; Literature and Imperialism. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.  
Credits: 3.

**ENGS 188 - Topics in 20C Comparative Lit**

Compares literary works from different countries, cultures, languages. Topics: 20th-Century Poetry of Witness; Magical Realism in Post-Colonial Literature. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 189 - Topics in 20C Women's Writing**

Works in various genres by 20-century women. Representative topics include: African Women's Writing; Gender and Modernism. May repeat for credit with different content. Pre/co-requisite: Three hours in English courses numbered ENGS 005 - ENGS 096; Sophomore standing.

Credits: 3.

**ENGS 190 - Buckham Honors Seminar**

Each seminar includes participation of a distinguished visiting scholar or writer, such as Stephen Greenblatt, Barbara Johnson, Houston Baker, Sacven Bercovitch, William Kennedy, Stephen King. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 3.

**ENGS 191 - Internship**

Pre/co-requisite: Departmental permission; Junior/ Senior standing.

Credits: 3-6.

**ENGS 192 - Internship**

Pre/co-requisite: Departmental permission; Junior/Senior standing.

Credits: 3-6.

**ENGS 195 - Intermediate Special Topics**

and sophomore standing.

Credits: 1-6.

**ENGS 196 - Intermediate Special Topics**

See schedule of topics for specific titles. Pre/co-requisites: 3 hours in English courses numbered 5-96 and sophomore standing.

Credits: 1-6.

**ENGS 197 - Readings and Research**

Department permission required. Not to exceed three hours per semester. See schedule of courses for specific titles. Pre/co-requisite: Department permission.

Credits: 3-6.

**ENGS 198 - Readings and Research**

Department permission required. Not to exceed three hours per semester. See schedule of courses for specific titles. Pre/co-requisite: Department permission.

Credits: 1-6.

**ENGS 201 - Sem Engl Lang or Critical Thry**

Recent topics: "Origins and Development of the English Language;" "Re-disciplining the History of Literature and Prerequisites: 86, 6 hours at the intermediate level, and instructor permission

Credits: 3.

**ENGS 202 - Sem Engl Lang or Critical Thry**

Recent topics: "Origins and Development of the English Language;" "Re-disciplining the History of Literature and the Literature of History;" "Women's Texts." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 211 - Sem in Composition & Rhetoric**

Recent topics: "Writing the New Yorker;" "Writing Vermont Life;" "Editing and Publishing." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 212 - Sem in Composition & Rhetoric**

Recent topics: "Writing the New Yorker;" "Writing Vermont Life;" "Editing and Publishing." Prerequisite: ENGS 086; six hours at the intermediate level; and Instructor permission.

Credits: 3.

**ENGS 221 - Seminar in Literature to 1800**

Recent topics: "Women in 17th Century English Poetry;" "Dante and the Experience of Reading;" "Orality and Textuality in Middle English Literature." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 222 - Seminar in Literature to 1800**

Recent topics: "Women in 17th Century English Poetry;" "Dante and the Experience of Reading;" "Orality and Textuality in Middle English Literature." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 241 - Seminar in 19th Century Lit**

Recent topics: "Dickens"; "Reader, I Married Him: The Brontes;" "Love, Marriage, and Literary Criticism: Jane Austen;" "Reading Serially: The Victorian Novel;" "Invisible Man and 19th Century American Literature," "The Gothic." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 242 - Seminar in 19th Century Lit**

Recent topics: "Dickens"; "Reader, I Married Him: The Brontes;" "Love, Marriage, and Literary Criticism: Jane Austen;" "Reading Serially: The Victorian Novel;" "Invisible Man and 19th Century American Literature," "The Gothic." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 251 - Seminar in 20th Century Lit**

Recent topics: "The Beat Generation;" "Literature and Society in Modern Ireland;" "Dostoevsky's Influence on 20th Century American Literature." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 252 - Seminar in 20th Century Lit**

Recent topics: "The Beat Generation;" "Literature and Society in Modern Ireland;" "Dostoevsky's Influence on 20th Century American Literature." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 281 - Sem Lit Themes, Genres, Folklore**

Recent topics: "Spiritual Journeys;" "Murder, He Said: Detective Fiction;" "Chekhov to Cheever: The Short Story." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 282 - Sem Lit Themes, Genres, Folklore**

Recent topics: "Spiritual Journeys;" "Murder, He Said: Detective Fiction;" "Chekhov to Cheever: The Short Story." Prerequisite: ENGS 086; six hours at the intermediate level; Instructor permission.

Credits: 3.

**ENGS 290 - Sem Prospective Tchrs of Engl**

Approaches to teaching composition, literature, and the English language in secondary school. This course does not logical, artistic, economic, and sociological history of the cinema from its inception through the 1920s. Prerequisites: 86, 6 hours at the intermediate level, and instructor permission.

Credits: 3.

**ENGS 295 - Advanced Special Topics**

instructor permission. Prerequisites: 86, 6 hours at the intermediate level, and

Credits: 1-6.

**ENGS 296 - Advanced Special Topics**

Prerequisites: 86, 6 hours at the intermediate level, and instructor permission.

Credits: 1-6.

**ENGS 297 - Readings and Research**

Departmental permission required. Not to exceed three hours per semester. UG only.

Credits: 1-3.

**ENGS 298 - Readings and Research**

Departmental permission required. Not to exceed three hours per semester. UG only.



Credits: 1-3.

**ENGS 320 - Seminar:Major Author**

In-depth study of the works, critical reception, and context of an author writing in English. Representative topics: Chaucer; Shakespeare; Milton; Austen; Dickinson; Morrison.

Credits: 3.

**ENGS 330 - Seminar:Literary Period**

Advanced survey of authors, themes, genres, and/or cultural context in a British or American literary period. Representative topics: British Renaissance; Restoration and Eighteenth Century; Victorian; American Renaissance.

Credits: 3.

**ENGS 340 - Studies in Rhetoric & Comp**

Introduction to current issues in the field. Representative topics: Rhetorical theory; gender, class, and composing; writing across the curriculum; collaborative learning, literature and composition.

Credits: 3.

**ENGS 350 - Surv of Lit Theory & Criticism**

Theory and Criticism.

Credits: 3.

**ENGS 360 - Seminar:Special Topics**

Topic varies, based on faculty research. Representative topics: orality and literacy in medieval literature; feminist theory; anthropological approaches to literature; narrative theory and Victorian novels.

Credits: 3.

**ENGS 370 - Principles of Literary Rsch**

Methods of literary study, research, and scholarship, including bibliographic, manuscript, and archival work.

Credits: 3.

**ENGS 391 - Master's Thesis Research**

Credits: 1-6.

**ENGS 392 - Seminar Paper Review**

Credits: 0.

**ENGS 397 - Special Readings & Research**

Directed individual study of areas not appropriately covered by existing courses. Permission of Graduate Director.

Credits: 1-6.

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## Courses in Film

*No courses found for category: **FILM**.*

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MA 1967 [Johns Hopkins University](#)  
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Daniel Mark Kahn-Fogel  
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## Environmental Program

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### Overview

Environmental Studies is a University-wide undergraduate environmental curricular option directed by the Environmental Program in cooperation with four colleges and professional schools. This option is one of UVM's most distinctive and popular academic programs — unique nationally in its breadth and interdisciplinary nature.

Students entering UVM may apply for admission to Environmental Studies through several of the undergraduate divisions. Choice of the appropriate college or school will depend on the individual's interests, career and educational objectives.

The Environmental Program involves students and faculty from throughout the University, as well as community professionals, recognizing that study of the environment must draw upon all academic disciplines and professional fields. The activities of the Program include undergraduate education, research, and community service programs dedicated to the study and improvement of the cultural and natural environments essential to the quality of life on earth.

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## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

The Program serves a wide range of environmental interests, with its primary mission being undergraduate education, and its primary focus the individual student. Working closely with the faculty, each student plans an individualized program that combines a broad, comprehensive understanding of the environment with depth in a specific concentration of study. Major concentrations can be in the natural sciences, the humanities, the social sciences, or broadly interdisciplinary around a specific focus.

Many graduates continue their education in graduate or professional schools; others work in public and private sectors in highly diverse fields throughout Vermont, the nation, and in countries around the globe.

Students enrolled in Early Childhood, Elementary Education and Physical Education may complete the major concentration in Environmental Studies as a fulfillment of the liberal arts and sciences major requirement. Environmental Studies is not a Vermont State Department of Education approved endorsement area for Secondary Education.

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## Policies and General Information

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## Faculty and Administration

Program offices and a Student Services Center are located in The Bittersweet Building, where students are encouraged to visit with the staff and faculty regarding their academic plans, to gain assistance with research or action projects, and to seek information about academic programs, internships, international study opportunities, graduate studies, and future careers.

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- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#). [The Rubenstein School of Environment and Natural Resources](#).

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## Environmental Studies [CAS] (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-eight credits including [ENVS 001](#), [ENVS 002](#), [ENVS 151](#), [ENVS 201](#), and six credits of [ENVS 202](#) and/or [ENVS 203](#); plus an Individually-Designed Program containing 18 credits of approved environmentally-related courses at 100 or higher level, including three credits at the 200-level, six credits of Environmental Studies courses, with at least one course in each of these areas\*: environmentally-related natural sciences, humanities, social sciences, and international studies (may be fulfilled by study abroad experience). The courses of the Individually-Designed Program combine, along with the senior project and thesis, to provide a coherent major for the student.

(\*) Students are cautioned that courses approved in these areas by Environmental Studies are not intended to fulfill the distribution requirements in the College of Arts and Sciences.

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## Environmental Studies [CAS] (Undergraduate Minor)

### Specific Requirements

Seventeen credits in Environmental Studies consisting of [ENVS 001](#), [ENVS 002](#), and nine credits at the 100-level or above, including three credits at the 200-level. (Of the nine credits, one non-ENVS course at the appropriate level may be substituted with the approval of the student's advisor and the Environmental Program.)

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## Courses in Environmental Studies

### ENVS 001 - Intro to Environmental Studies

Survey of environmental studies examining ecological, socioeconomic, aesthetic, and technological influences determining quality of life on earth. Prerequisite: First-year/Sophomore standing or Instructor permission.

Credits: 4.

### ENVS 002 - Internat'I Environmental Stds

A multidisciplinary analysis of the interaction of global and local variables in understanding and solving pervasive environmental problems. Prerequisite: First-year or sophomore standing.

Credits: 4.

### ENVS 007 - Environmental Awareness

Selected current environmental issues from evolving political, religious, scientific, and social perspectives. For non-majors. Cannot receive credit for both ENVS 001 and ENVS 007

Credits: 3.

### ENVS 095 - Special Topics

Introductory courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural areas management.

Credits: 1-4.

### ENVS 096 - Special Topics

Credits: 1-3.

### ENVS 100 - Environmental Theory

Comparative analysis of emerging concepts of human/environment relationships; the history, philosophy, and theoretical framework of environmental studies.

Education

Prerequisites: 1,2.

Credits: 3.

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
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### **ENVS 151 - Intermed Environmental Studies**

Individual investigation of interdisciplinary areas of environmental studies with emphasis on academic and career choices and preparation for senior thesis/project. Prerequisites: Major in Environmental Studies; 1, 2; permission.

Credits: 3.

### **ENVS 152 - Environment Information Skills**

age by teaching information concepts, skills, and broad ranging resources.

Prerequisite: ENVS 151, or concurrently enrolled in ENVS 151.

Credits: 1.

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### **ENVS 156 - Permaculture**

Cross-listed with: PSS 156. Design of agriculturally productive environments that have the diversity, stability, and resilience of the natural biosphere to harmoniously integrate landscape and people. Prerequisite: Three hours basic biological or ecological science, or permission.

Credits: 2.

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### **ENVS 166 - Environmental Hst of N America**

Examination of human-environmental interaction on the North American continent over the past five hundred years. Pre/co-requisite: Three hours History. Cross-listed with: HST 166.

Credits: 3.

### **ENVS 173 - Landscape Natural History**

This field-based course examines patterns and processes on local landscapes from an interdisciplinary perspective, with an emphasis on geology, soil science, plant ecology, and ecosystem geography. Prerequisites: ENVS 001;

Credits: 3.

### **ENVS 174 - Nat Areas Conservation&Steward**

Prerequisites: ENVS 001, NR 001, or Instructor permission.

Credits: 3.

### **ENVS 177 - Intro to Landscape Restoration**

Introduction to the history, philosophical foundations, and approaches to restoration of natural landscapes damaged by human activity and neglect. Case studies of selected local sites. Prerequisite: ENVS 001, NR 001, or Instructor permission.

Credits: 3.

### **ENVS 178 - Environmental Ethics**

Current approaches and problems in environmental ethics drawing on philosophy and case studies in animal rights, land ethics, deep ecology, wilderness protection, and human rights. Prerequisite: One environmental course; Junior standing.

Credits: 0-3.

**ENVS 179 - Ecofeminism**

Investigation of the parallel dominations of women and nature, through analysis and reflection on ecofeminist theory, activism, and spirituality. Prerequisite: ENVS 001, ENVS 002 or WGST 073; Sophomore standing. Cross-listed with: WST 179. Credits: 3.

**ENVS 180 - Radical Environmentalism**

Survey of radical environmental philosophy and activism from a liberation ethics perspective. Includes deep ecology, ecofeminism, environmental justice, and ecological resistance movements around the world. Prerequisite: ENVS 001, ENVS 002; Sophomore standing. Credits: 3.

**ENVS 181 - Strategic Environmental Leadership**

Theory and analysis of strategic environmental leadership as it varies with culture, ethnicity, and gender. Prerequisites: 1, 2, junior standing, permission of instructor. Credits: 1.

**ENVS 182 - Religion and Ecology**

or ENVS 002; or  
Credits: 3.

**ENVS 190 - Environmental Skills**

Workshops to develop applied skills useful for environmental work and/or research. Topics vary by semester. Prerequisite: ENVS 001, ENVS 002. Credits: 1-3.

**ENVS 191 - Environmental Practicum**

Individual readings and research, internship, or field-based learning experience under direction of a faculty member or environmental practitioner. Credit arranged. Prerequisite: Permission of course coordinator. Credits: .5-9.

**ENVS 195 - Special Topics**

Intermediate courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course; Sophomore standing. Credits: 1-6.

**ENVS 196 - Special Topics**

Intermediate courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course; Sophomore standing. Credits: 1-6.

**ENVS 197 - Student Designed Course**

Course Student-taught courses beyond the scope of existing formal courses in environmental studies. Developed according to Program guidelines, with sponsorship by interested faculty. Prerequisites: 1, 2, permission.  
Credits: 1-3.

**ENVS 201 - Research Methods**

(Not offered for graduate credit.) Planning, design, and methods for the required senior thesis or project. Includes literature review and proposal writing.  
Prerequisites: 151, junior standing.  
Credits: 3.

**ENVS 202 - Senior Project and Thesis**

Senior level project or thesis under faculty direction. Prerequisites: 201, permission of Environmental Program. Credits arranged. (Not offered for graduate credit.)  
Credits: 1-9.

**ENVS 203 - Honors Thesis**

Undergraduates only.  
Credits: 1-9.

**ENVS 204 - Seminar Environmental Studies**

Review and discussion of current environmental research and literature.  
Prerequisites: 1, 2, junior or senior standing. (Not offered for graduate credit.)  
Credits: 1-3.

**ENVS 284 - Teaching Assistantship**

in ENVS course. Variable credit. May be repeated. UG only. Students gain practical teaching experience through assisting with instruction, evaluation, and reflection. Tasks may include: leading discussion sessions, grading, and developing course materials. Prerequisites: Senior standing or permission of instructor, concurrent teaching assistant  
Credits: 1-2.

**ENVS 289 - Environmental Economics**

Application of economic theory and methods to environmental problems and policies. Includes cost-benefit analysis and economic incentives as tools for environmental problem solving. Prerequisites: 1, three hours intermediate economics. For students in Arts and Sciences: Economics 11-12, intermediate course in ENVS. UG only.  
Credits: 3.

**ENVS 290 - Environmental Policy**

Public policy dimensions of natural resource management and environmental protection; U.S. historical context; policy analyses of contemporary issues; administration of environmental resource institutions. Prerequisites: Six hours of intermediate or advanced courses in ENVS or related areas. UG only.  
Credits: 3.

**ENVS 291 - Advanced Environmental Pract**

Individual readings and research, internship, or field-based learning experience at the advanced level, under direction of faculty member or environmental practitioner. Prerequisite: ENVS 001, ENVS 002; Senior/Graduate standing.

Credits: 1-12.

**ENVS 293 - Environmental Law**

Principles of environmental law, including legal research methods, threshold issues, case law, trial procedure, and international comparisons in aspects of air, land, and water law. Prerequisite: Junior standing.

Credits: 3.

**ENVS 294 - Environmental Education**

Philosophy, concepts, and strategies of environmental education, emphasizing integration of environmental concerns into formal and nonformal educational programs for youth and adults. Prerequisite: Six hours of intermediate or advanced courses in Environmental Studies or related areas.

Credits: 3.

**ENVS 295 - Advanced Special Topics**

Advanced courses of current areas of interest which may vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course at 100 level; Junior standing.

Credits: 0-6.

**ENVS 296 - Advanced Special Topics**

Advanced courses of current areas of interest which may vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisites: One environmental course at 100 level, junior standing. UG only.

Credits: 1-6.

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## Environmental Sciences Program

### Contact Information

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*College of Arts and Sciences*

*Phone: (802) 656-3166*

*Email: [Joel.Goldberg@uvm.edu](mailto:Joel.Goldberg@uvm.edu)*

*Alan McIntosh, Co-Coordinator*

*The Rubenstein School of Environment and Natural Resources*

*Phone: (802) 656-4057*

*FAX: (802) 656-8683*

*Email: [Alan.McIntosh@uvm.edu](mailto:Alan.McIntosh@uvm.edu)*

*Donald Ross, Co-Coordinator*

*College of Agriculture and Life Sciences*

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[Web Site](#)

### Overview

Integrated across the College of Agriculture and Life Sciences (CALs), the College of Arts and Sciences (CAS), and The Rubenstein School of Environment and Natural Resources (RSENr), the B.S. degree program in Environmental Sciences (ENSC) draws from a breadth of scientific inquiry on the environment that reflects the diversity of this naturally multidisciplinary endeavor. All ENSC majors receive a strong foundation in the basic sciences coupled with an in-depth exposure to and experience in today's environmental sciences. This prepares our students to successfully compete in the environmental sciences job market as well as continue their education in the environmental sciences or a related field.

#### In This Department

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## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

All students take a common set of Foundation and Prerequisite courses in Biology, Chemistry, Mathematics, and Geology or Plant and Soil Science. A common set of Environmental Science Core courses is followed by specialization in one of nine focus areas (Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources.)

Each unit has a unique perspective on the discipline, and students are free to explore the environmental sciences within a context that best fits their interests and future plans:

- In the College of Agriculture and Life Sciences, faculty research has a strong orientation toward applied environmental problems, not only in agricultural settings but also in the disciplines of plant biology, microbiology, soil science and international development. Students are engaged in experiential learning and hands-on research. Graduates have attained positions with environmental consulting firms, government and non-government environmental organizations, or continued with further education in a variety of fields.
- In the College of Arts and Sciences, the environmental sciences serve as a hub for a broad-based liberal arts education. Drawing from traditional science disciplines, such as Biology, Chemistry and Geology, this interdisciplinary degree program aims to develop in students the analytical skills and scientific background necessary for understanding the environment and environmental problems. By participating in active research programs involved in studying environmental problems, students are able to integrate and apply fundamental scientific inquiry with application to problems of environmental importance.
- In The Rubenstein School of Environment and Natural Resources, an in-depth knowledge of the environmental sciences is coupled with a familiarity with the social/policy aspects of environmental issues in order to analyze and solve problems caused by human impacts on the environment. Blending hands-on field and laboratory instruction with real-world environmental internship, research, and study abroad opportunities, students acquire the skill set needed to tackle complex environmental problems. With the school's emphasis on such cutting-edge areas as ecological design, restoration of damaged ecosystems and environmental risk assessment, RSENR graduates are equipped with the latest tools to protect our woods, waters and landscapes.

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## Environmental Sciences [CAS] (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 042](#) or [CHEM 141\\*](#) or [CHEM 143\\*](#); [GEOL 055\\*\\*](#) or [PSS 161](#); [STAT 141](#) or [STAT 211](#) or [NR 140](#); [ENSC 001](#), [ENSC 101](#), [ENSC 130](#); [BCOR 102\\*\\*\\*](#) or [CHEM 142\\*\\*\\*\\*](#) (or [CHEM 144](#))\*\*\*\* or [GEOL 110\\*\\*](#); and 14-17 credits of advanced coursework, chosen in consultation with your advisor, in one of the following Focus Tracks: Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources. Up-to-date course requirements for each Focus Track are available from your advisor or the Dean's Office; students may elect to petition to develop a self-design track.

Also: [BCOR 011](#) and [BCOR 012](#); [CHEM 031](#) and [CHEM 032](#) (or [CHEM 035](#) and [CHEM 036](#)); [MATH 19](#) and [MATH 20](#) (or [MATH 21](#) and [MATH 22](#) ); [PHYS 011](#) and [PHYS 012](#) (or [PHYS 031](#) and [PHYS 042](#)) - Physics is required only for the Environmental Chemistry Focus Track.

College of Arts and Sciences students majoring in the B.S. program in Environmental Sciences are required to take at least 84 credit hours of coursework in the College of Arts and Sciences.

\*Required for Environmental Biology and Environmental Chemistry Focus Tracks.

\*\*Required for Environmental Geology Focus Track.

Education \*\*\*Required for Environmental Biology Focus Track.

• Graduate College \*\*\*\*Required for Environmental Chemistry Focus Track.

• Honors College

### Affiliations

• School of Business Administration

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## Courses in Environmental Sciences

### ENSC 001 - Intro Environmental Sciences

Emphasizes the impacts of human activity on the environment. Attention to resources at risk and pollutant fate and effects on ecosystems.

Credits: 3.

### ENSC 101 - Pollutant Mvmt/Air, Land & Water

Physical, chemical, and biological aspects of pollutant behavior from source to ultimate fate. Laboratory methodologies for measuring pollutants and predicting their transport, behavior, and fate. Prerequisites: 1; Biology 1, 2; Chemistry 31, 32; Math. 19, 20; co-requisite Chemistry 42.

Credits: 4.

### ENSC 130 - Global Environmental Assessment

Assessment of human impacts on the global environment. Hands-on application of satellite remote sensing and geographic information systems to address key environmental issues. Prerequisite: BIOL 001 or BOT 004, CHEM 023, or equivalent, MATH 019.

Credits: 3.

### ENSC 185 - Special Topics

See Schedule of Courses for specific titles. Variable credit.

Credits: 1-12.

### ENSC 195 - Internship

Professionally-oriented field experience under joint supervision of faculty and business or community representative. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing; Maximum of six hours. Three can be applied to elected concentration with Director permission.

Credits: 1-6.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**ENSC 196 - Independent Research**

Special study and research activity under the directory of a faculty member. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing. Up to six hours. Three can be applied to elected concentration with Director permission.  
Credits: 1-6.

**ENSC 201 - Recovery&Restor Altered Ecosys**

Role of stress and disturbance and the natural process of recovery in aquatic and terrestrial ecosystems. Human efforts to modify, restore, and remediate altered ecosystems. Prerequisites: Natural Resources 103 or an intermediate-level ecology course; or instructor's permission. Environmental Sciences 101 strongly recommended.  
Credits: 3.

**ENSC 202 - Ecological Risk Assessment**

Approaches used to identify, measure, and manage ecological risk. Problem formulation, characterization, uncertainty analysis, and risk management. Case studies. Prerequisite: ENSC 201, NR 140 or STAT 141; Senior standing, or Instructor permission.  
Credits: 3.

**ENSC 222 - Pollution Ecology**

Impacts of pollutants on the structure and function of ecosystems. Examination of how air, land, and water influence ecological fate and effects of pollutants. Prerequisites: Biology 1; Chemistry 23, Natural Resources 103 or equivalent ecology course. (Not offered for graduate credit.)  
Credits: 3.

**ENSC 285 - Adv Special Topics ENSC**

See Schedule of Courses for specific titles. Prerequisites: Senior standing or instructor's permission. Variable credit. (Not offered for graduate credit.)  
Credits: 1-12.

**ENSC 299 - Environmental Sciences Honors**

Prerequisites: By application only; see program chair. Honors project dealing with environmental sciences.  
Credits: 3-6.

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## Geography Department

### Contact Information

*University of Vermont*  
*Geography Department*  
 200 Old Mill  
 94 University Place  
 Burlington, VT 05405-0114

Phone: (802) 656-3060  
 Fax: (802) 656-3042  
 Email: [geography@uvm.edu](mailto:geography@uvm.edu)

[Web Site](#)

### Affiliations

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## Geography (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Ten courses (thirty credits), which must include: [GEOG 002](#) or [GEOG 043](#); [GEOG 060](#) or [GEOG 073](#); [GEOG 081](#); any one regional course (from [GEOG 051](#), [GEOG 052](#), [GEOG 055](#), [GEOG 056](#), [GEOG 057](#), [GEOG 090](#), [GEOG 092](#), [GEOG 151](#), [GEOG 154](#), [GEOG 155](#), [GEOG 162](#), [GEOG 190](#) or [GEOG 192](#)); any three courses at the 100-level; any one course at the 200-level.

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- College of Education and Social Services
- College of Engineering and Mathematics
- College of Medicine
- College of Nursing and Health Sciences
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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Geography Department > Academic Offerings > Geography (Minor)

## Geography (Undergraduate Minor)

### Specific Requirements

Five courses (fifteen credits) which must include: one course from this array: [GEOG 001](#), [GEOG 002](#), [GEOG 043](#), [GEOG 060](#), [GEOG 073](#), [GEOG 081](#); any one regional course (from [GEOG 051](#), [GEOG 052](#), [GEOG 055](#), [GEOG 056](#), [GEOG 057](#), [GEOG 090](#), [GEOG 092](#), [GEOG 151](#), [GEOG 154](#), [GEOG 155](#), [GEOG 162](#), [GEOG 190](#), or [GEOG 192](#)); any three courses at the 100-level or above.

### Affiliations

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Geography Department > Courses

## Courses in Geography

### **GEOG 001 - World Regional Geography**

Basic introduction to Geography by way of a regional approach to human and environmental topics.

Credits: 3.

### **GEOG 002 - World Natural Environments**

The patterns of the natural environment with particular attention to landforms, climate, soil, vegetation, and water resources.

Credits: 3.

### **GEOG 043 - Weather & Climate**

Introduction to the fundamentals of the weather, as well as midlatitude and tropical climates. Topics include cloud formation, hurricanes, tornadoes, winter weather, climate change.

Credits: 3.

### **GEOG 051 - Africa**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

Credits: 3.

### **GEOG 052 - Canada**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

Credits: 3.

### **GEOG 055 - Europe**

The character and development of the contemporary cultural, economic, and

Education political patterns of the area against the background of its physical and resource base.

• Graduate College

Credits: 3.

• Honors College

### **GEOG 056 - Latin America**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

• School of Business Administration

Credits: 3.

• The Rubenstein School of Environment and Natural Resources

### **GEOG 057 - The United States**

The character and development of the contemporary cultural, economic, and political patterns of the area against the background of its physical and resource base.

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Credits: 3.

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### **GEOG 060 - Geography/Race&Ethnicity in US**

Examination of the ways in which spatial and locational processes shape and are shaped by ethnic and racial identities, struggles, and relationships.

Credits: 3.

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### **GEOG 073 - Geography of Global Economy**

Distribution of global economic activity and power. Processes of uneven development and globalization including industrialization, the "global assembly line," trade, investment, and migration.

Credits: 3.

### **GEOG 081 - Geotechniques**

Introduction to cartography, geographic information systems (GIS), and remote sensing. Map design and analysis using topographic/satellite data, air photo interpretation, digitizing, and Internet resources.

Credits: 3.

### **GEOG 090 - International Field Studies**

Field course abroad (e.g. South Africa or England). Intensive study of the geography of a country or region, with attention to related issues.

Credits: 3.

### **GEOG 092 - Vermont Field Studies**

Field course on a geographical theme (e.g. physical or regional geography) in the Burlington area or surrounding region. Cross-listed with: VS 092.

Credits: 3.

### **GEOG 095 - Special Topics in Geography**

See Schedule of Courses for specific titles.

Credits: 1-3.

### **GEOG 096 - Special Topics in Geography**

See Schedule of Courses for specific titles.

Credits: 1-3.

**GEOG 143 - Climatology**

Analysis of regional and local climatic data with special reference to climatic controls; special laboratory projects. Prerequisite: 43 or instructor permission.

Credits: 3.

**GEOG 144 - Geomorphology**

Prerequisite: GEOL 001 or GEOL 055. Cross-listed with: GEOL 151.

Credits: 4.

**GEOG 145 - Geography of Water**

Examination of the spatial dimensions of water distribution from local to global scales, and the social, political, and economic dimensions of its use. Same as NR 102.

Credits: 3.

**GEOG 146 - Watershed Ecosystems:N America**

Examines the influence of climate, geomorphic processes, and biogeography on ecosystems at the scale of the watershed. Explores the role of social dynamics in the management and restoration of watersheds.

Credits: 3.

**GEOG 151 - Southern Africa**

A regionally focused course. Topics will include: information economy, legacy of apartheid, impacts of HIV/AIDS, race, class, gender, land, governance and social justice. Prerequisite: 51.

Credits: 3.

**GEOG 154 - Geography of Third World Dev**

Problems of poverty, insecurity, inequality and environmental degradation in the Third World. Economic change, migration, regional development, role of women. Focus on Africa and Asia.

Credits: 3.

**GEOG 155 - Historical Geography of Europe**

HST 120.

Credits: 3.

**GEOG 170 - Historical Geography**

(Same as History 170.) Examination of the tools, techniques, and perspectives used in studying the historic development of places and landscapes. Vermont and other North American case studies. Prerequisites: 57 recommended or History 11 or 12 or instructor permission .

Credits: 3.

**GEOG 171 - Cultural Geography**

Distribution of race, ethnicity, language, and religion at different geographical scales and how these factors contribute to world and regional events.

Prerequisites: 1 or Anthropology 21 or Sociology 1.

Credits: 3.

**GEOG 173 - Political Ecology**

Human-environment interactions under globalization. Social and economic causes of global and local environmental problems. Environmental movements and sustainable livelihoods in First and Third Worlds.

Credits: 3.

**GEOG 174 - Agricultural Geography**

Credits: 3.

**GEOG 175 - Urban Geography**

Analysis of the morphology, function and social structure of cities. Consideration of the nature, history and theories of urban growth and development. Prerequisites: 1 or 73 or instructor permission.

Credits: 3.

**GEOG 177 - Political Geography**

(Same as Political Science 161.) Examines the relationships between nation states and political identity. Other political-spatial constructs are also examined, including the private and public dichotomy, cyberspace, and borders.

Prerequisites: Recommended 1 or 73 or Political Science 51 or 71.

Credits: 3.

**GEOG 178 - Gender, Space & Environment**

(Same as Women's Studies 170.) Examination of the ways in which human relationships to both the built and the natural environment are mediated by gender. Prerequisites: Six hours in geography or women's studies, or instructor's permission.

Credits: 3.

**GEOG 179 - Cultural Ecology**

(Same as Anthropology 179.) Interrelationships of social groups and their natural environments and resource bases, with primary emphasis on nonindustrial cultures, examined from the perspectives of anthropology and geography.

Prerequisite: 1 or Anthropology 21.

Credits: 3.

**GEOG 184 - Geog Info: Concepts & Applic**

an analytical tool. Pre/co-requisite: GEOG 081 or NR 025 Systematic approach to important geographical concepts (including distance, shape, scale dispersion) structured around the use of Geographical Information Systems (GIS) as or equivalent.

Credits: 3.

**GEOG 185 - Remote Sensing**

(e.g. principal components analysis). Prerequisite: GEOG 081 Examinations of the earth's surface from aerial photographs and satellite imagery. Emphasis is on

image interpretation, classification, change detection, multivariate analysis recommended. Cross-listed with: FOR 146, NR 146.

Credits: 3.

**GEOG 190 - International Field Studies**

Field course abroad (e.g. South Africa or England.) Intensive study of the geography of a country or region, with attention to related issues. Prerequisite: Three hours in Geography.

Credits: 3.

**GEOG 191 - Geography Internship**

Supervised internship in applied geography working with a local public agency or private firm. Individually arranged. Prerequisite: Junior/Senior standing; department permission.

Credits: 1-6.

**GEOG 192 - Vermont Field Studies**

Field course on a geographical theme (e.g. physical or regional geography) in the Burlington area or surrounding region. Prerequisite: Three hours in Geography.

Cross-listed with: VS 192.

Credits: 3.

**GEOG 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 0-3.

**GEOG 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**GEOG 197 - Readings & Research**

Credits: 1-6.

**GEOG 198 - Readings & Research**

Credits: 1-6.

**GEOG 202 - Research Methods**

A systematic overview of the art and science of geographical inquiry. Examination of key research and methodological approaches in the discipline. Prerequisite: Junior/Senior standing; nine hours in Geography.

Credits: 3.

**GEOG 203 - Contemp Geog Thought Context**

A survey of paradigms and issues in contemporary geography. Attention paid to the social and historical contexts of geographic thought. Prerequisite: Nine hours in Geography or Instructor permission.

Credits: 3.

**GEOG 204 - Spatial Analysis**

Analysis of spatial pattern and interaction through quantitative models; introduction to measurement, sampling, and covariation in a spatial framework. Prerequisite: Senior/Graduate standing; at least nine hours in Geography, or Instructor permission.

Credits: 3.

### **GEOG 245 - Adv Top:Human Env Interactions**

Advanced offerings on various manifestations of social-environmental relationships. Possible topics include sustainable development, environmental justice, and urban ecology. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

Credits: 3.

### **GEOG 246 - Adv Top:Climate&Water Resource**

Advanced analysis of regional climatology, hydroclimatological hazards, or fluvial geomorphology. Special topics might include droughts, severe weather, floods and floodplain management, mountain and lowland rivers. Prerequisites: Senior or graduate standing with nine hours in Geography, or instructor permission.

Credits: 3.

### **GEOG 272 - Adv Top:Space, Power, Identity**

Advanced offerings on topics related to the spatial regulation and geographic construction of social identity, paying particular attention to race, gender and sexuality. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

Credits: 3.

### **GEOG 273 - Adv Top:Political Econ&Ecology**

Advanced offerings in political ecology and political economy, particularly at global and regional scales. Possible topics include Third World economic restructuring, globalization, international environmental movements. Prerequisite: Senior/Graduate standing with nine hours in Geography or Instructor permission.

Credits: 3.

### **GEOG 274 - Adv Top:Critical Urban&Soc Geo**

Advanced offerings in urban and critical social geography. Possible topics include social justice and the city, human rights, geographies of social control. Prerequisite: Senior/Graduate standing with nine hours in Geography, or Instructor permission.

Credits: 3.

### **GEOG 281 - Adv Topic:GIS & Remote Sensing**

Advanced offerings in GIS or remote sensing focusing on landscape interpretation for decision-making practices. Incorporation of applications from Vermont public and private sectors. Prerequisites: Senior or Graduate standing with nine hours in Geography; or Instructor permission.

Credits: 3.



**GEOG 295 - Advanced Special Topics**

See schedule of courses for specific titles.

Credits: 3.

**GEOG 296 - Advanced Special Topics**

See schedule of courses for specific titles.

Credits: 3.

**GEOG 297 - Readings & Research**

Credits: 1-6.

**GEOG 298 - Readings & Research**

Credits: 1-6.

**GEOG 300 - Graduate Tutorial**

Readings and research on topics arranged individually by students with instructors; attendance in appropriate undergraduate courses may be required.

Prerequisite:

Credits: 3.

**GEOG 391 - Master's Thesis Research**

Credits: 1-18.

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## Faculty for Geography Department

Padraig R. Carmody

Adjunct Assistant Professor of Geography

Appointed in [2002](#)

[Geography Department](#)

BA 1990 [Trinity College](#)

MSC 1994 [Trinity College](#)

PHD 1998 [University of Minnesota Twin Cities](#)

[Search Courses for Padraig Carmody](#)

Pierre Deslauriers

Adjunct Lecturer of Geography

Appointed in [2005](#)

[Geography Department](#)

BA 1984 [Concordia University](#)

MS 1987 [Universite de Montreal](#)

PHD 1998 [Universite de Montreal](#)

[Search Courses for Pierre Deslauriers](#)

Lesley-Ann Dupigny-Giroux

Associate Professor of Geography

Associate Professor of Geology

Appointed in [1997](#)

[Geography Department](#)

[Geology Department](#)

BS 1989 [University of Toronto](#)

MS 1992 [McGill University](#)

PHD 1996 [McGill University](#)

Education

[Search Courses for Lesley-Ann Dupigny-Giroux](#)

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

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Marla Emery

Adjunct Assistant Professor of Geography

Appointed in [1996](#)

[Geography Department](#)

BA 1976 [San Jose State University](#)

MSED 1984 [University of Miami](#)

PHD 1998 [Rutgers University New Brunswick/Piscataway](#)

[Search Courses for Marla Emery](#)

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Matthew G. Hannah

Adjunct Associate Professor of Geography

Appointed in [1994](#)

[Geography Department](#)

BS 1985 [University of Maryland College Park](#)

MS 1988 [Pennsylvania State University](#)

PHD 1992 [Pennsylvania State University](#)

[Search Courses for Matthew Hannah](#)

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Richard Stephen Kujawa

Adjunct Associate Professor of Geography

Appointed in [1991](#)

[Geography Department](#)

BSC 1980 [Brunel University](#)

MA 1984 [University of Iowa](#)

MA 1985 [University of Iowa](#)

PHD 1990 [University of Iowa](#)

[Search Courses for Richard Kujawa](#)

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Cheryl Morse

Assistant Professor of Geography

Appointed in [2001](#)

[Center for Research on Vermont](#)

[Geography Department](#)

BA 1989 [University of Vermont](#)

MA 2000 [University of Vermont](#)

PHD 2006 [University of British Columbia](#)

[Search Courses for Cheryl Morse](#)

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Shelly A. Rayback

Associate Professor of Geography

Appointed in [2005](#)

[Geography Department](#)

BA 1993 [Wellesley College](#)

MA 1997 [University of Texas Austin](#)

PHD 2003 [University of British Columbia](#)

[Search Courses for Shelly Rayback](#)

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Beverley Coghill Wemple

Associate Professor of Geography

Associate Professor of Geology

Appointed in [1999](#)

[Geography Department](#)

[Geology Department](#)

BA 1986 [University of Richmond](#)

MS 1994 [Oregon State University](#)

PHD 1998 [Oregon State University](#)

[Search Courses for Beverley Wemple](#)

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## Geology Department

### Contact Information

*University of Vermont*  
*Geology Department*  
*Delehanty Hall*  
*43 Colchester Ave*  
*Burlington, VT 05405-0122*

Phone: (802) 656-3396  
 Fax: (802) 656-0045  
 Email: [Charlotte.Mehrtens@uvm.edu](mailto:Charlotte.Mehrtens@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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- [Environmental Sciences: Geology \(Minor\)](#)
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## Environmental Sciences [CAS] (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CHEM 042](#) or [CHEM 141\\*](#) or [CHEM 143\\*](#); [GEOL 055\\*\\*](#) or [PSS 161](#); [STAT 141](#) or [STAT 211](#) or [NR 140](#); [ENSC 001](#), [ENSC 101](#), [ENSC 130](#); [BCOR 102\\*\\*\\*](#) or [CHEM 142\\*\\*\\*\\*](#) (or [CHEM 144](#))\*\*\*\* or [GEOL 110\\*\\*](#); and 14-17 credits of advanced coursework, chosen in consultation with your advisor, in one of the following Focus Tracks: Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources. Up-to-date course requirements for each Focus Track are available from your advisor or the Dean's Office; students may elect to petition to develop a self-design track.

Also: [BCOR 011](#) and [BCOR 012](#); [CHEM 031](#) and [CHEM 032](#) (or [CHEM 035](#) and [CHEM 036](#)); [MATH 19](#) and [MATH 20](#) (or [MATH 21](#) and [MATH 22](#) ); [PHYS 011](#) and [PHYS 012](#) (or [PHYS 031](#) and [PHYS 042](#)) - Physics is required only for the Environmental Chemistry Focus Track.

College of Arts and Sciences students majoring in the B.S. program in Environmental Sciences are required to take at least 84 credit hours of coursework in the College of Arts and Sciences.

\*Required for Environmental Biology and Environmental Chemistry Focus Tracks.

\*\*Required for Environmental Geology Focus Track.

Education \*\*\*Required for Environmental Biology Focus Track.

• Graduate College \*\*\*\*Required for Environmental Chemistry Focus Track.

• Honors College

### Affiliations

• School of Business Administration

• Colleges and Schools:[College of Arts and Sciences](#).[College of Agriculture and Life Sciences](#).[The Rubenstein School of Environment and Natural Resources](#).

• The Rubenstein School of Environment and Natural Resources

• Departments and Programs:[Biology Department](#).[Chemistry Department](#).[Geology Department](#).[Environmental Sciences Program](#).

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## Environmental Sciences: Geology (Undergraduate Minor)

### Specific Requirements

[GEOL 055](#), [GEOL 101](#), [GEOL 155](#), and two additional upper-division non-geology courses chosen in consultation with minor advisor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Geology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

One introductory geology course ([GEOL 001](#), [GEOL 005](#), [GEOL 055](#)), [GEOL 062](#), [GEOL 101](#), [GEOL 110](#), [GEOL 260](#). At least three credits of field experience are highly advisable ([GEOL 197](#), [GEOL 198](#), [GEOL 201](#)), field camp or field-based thesis). Three geology courses at the 100-level or above. Two additional courses in geology or approved science, mathematics, engineering, or statistics courses at the 100-level or above selected in consultation with a geology advisor. [MATH 019/MATH 020](#) (or [MATH 021/MATH 022](#)); [CHEM 031/CHEM 032](#) (or [CHEM 035/CHEM 036](#)); [PHYS 011/PHYS 021](#) ([PHYS 012/PHYS 022](#) also strongly recommended).

Note: [GEOL 007](#) - Earth Hazards will not count for the major or minor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Geology (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

One introductory geology course ([GEOL 001](#), [GEOL 005](#), [GEOL 055](#)), [GEOL 062](#), [GEOL 101](#), [GEOL 110](#), [GEOL 260](#). At least three credits of field experience are required ([GEOL 197](#), [GEOL 198](#), [GEOL 201](#)), field camp or field-based thesis. Four geology courses at the 100-level or above. Two additional courses in geology or approved science, mathematics, engineering, or statistics courses at the 100-level or above selected in consultation with a geology advisor. [MATH 021/MATH 022](#) (or [MATH 019/MATH 020/MATH 022](#)); [CHEM 031/CHEM 032](#) (or [CHEM 035/CHEM 036](#)); [PHYS 031/PHYS 021](#), [PHYS 042/PHYS 022](#); [STAT 141](#).

Note: [GEOL 007](#) - Earth Hazards will not count for the major or minor.

### Affiliations

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## Geology (Undergraduate Minor)

### Specific Requirements

One Geology course from [GEOL 001](#), [GEOL 005](#), or [GEOL 055](#); [GEOL 101](#); [GEOL 110](#); plus six additional hours at the 100-level or above.

Note: [GEOL 007](#) - Earth Hazards will not count for the major or minor.

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## Courses in Geology

### GEOL 001 - Earth System Science

An introduction to the earth as a closed system, the cycling of materials and energy within it, and how it interacts with the hydrosphere and atmosphere.

Credits: 4.

### GEOL 003 - Fire & Ice

Introduction to volcanoes/plate tectonics ("fire") and glaciers/climate change ("ice") using lectures, slides, discussion, and field trips. Considers Vermont and world-wide geological examples.

Credits: 3.

### GEOL 004 - Dynamic Earth

only.

Credits: 4.

### GEOL 005 - Mt - Lake:Geol Lake Chmpln Bsn

Scientific principles applied to the geology and geologic history of the Lake Champlain Basin.

Credits: 4.

### GEOL 007 - Earth Hazards

and destruction by earthquakes, landslides, floods,

Credits: 3.

### GEOL 010 - Geological Oceanography

Characteristics and development of the oceans, their basins and shorelines, including plate tectonic history and basic physical, chemical, and biological processes. Prerequisite: GEOL 001 or introductory science course.

Credits: 3.

### GEOL 053 - Planetary Geology

Education

processes active in our Solar System. Prerequisites:

• Graduate College

Credits: 3.

• Honors College

**GEOL 055 - Environmental Geology**

Introduction to geologic processes and materials pertinent to environmental problems: ground water movement, supply, and contamination, waste disposal, flooding, subsidence, and landslides. Local field trips. Designed for intended Natural Science majors.

• School of Business Administration

Credits: 4.

• The Rubenstein

School of

Environment and

Natural Resources

**GEOL 062 - Earth Env & Life Through Time**

changed over time and how this has influenced the history of life. Prerequisites: GEOL 1,3,4,5, or 55.

Credits: 4.

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**GEOL 095 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 0-4.

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**GEOL 096 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 0-6.

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**GEOL 101 - Field Geology**

Geological evolution of western Vermont as seen through actual field mapping in the Burlington area. Specifically designed for sophomores majoring or minoring in Geology or related sciences. Prerequisite: GEOL 001, GEOL 055, or Instructor permission.

Credits: 4.

**GEOL 110 - Earth Materials**

Introduction to the major rocks and rock-forming minerals and their relationship to formation/depositional environments. Pre/co-requisite: Introductory Geology course: GEOL 001, GEOL 055 or GEOL 095.

Credits: 4.

**GEOL 112 - Mineralogy&Optic Crystallgrphy**

Credits: 4.

**GEOL 116 - Glacial Geology**

Examines the Dynamics of glacier flow and landforms glaciers produce. Lectures, labs, and field trips emphasis processes in both modern and ancient glaciers.

Prerequisites: GEOL 1,5, or 55.

Credits: 4.

**GEOL 131 - Igneous/Metamorph/Sedmnt Petro**

(3-3) Description, classification, and genesis of igneous and metamorphic rocks. Introduction to petrogenetic models of the earth's crust and mantle. Prerequisite: GEOL 112.

Credits: 4.

**GEOL 151 - Geomorphology**

Examines, using lectures, labs, and field-based independent study research projects, processes which change Earth's surface and the history of landscape development. Considers fundamental geologic constraints on environmental problems. Prerequisite: GEOL 001 OR GEOL 055. Cross-listed with: GEOG 144.

Credits: 4.

**GEOL 153 - Strat & Sedimentary Petrology**

Properties of physical sedimentation, principles of stratigraphy and basin analysis, and comparison of modern and ancient environments. Lab includes description and classification of sedimentary rocks. Prerequisite: 131.

Credits: 4.

**GEOL 155 - Fluvial Geology**

A discussion of fluvial systems including hydrology, sedimentation, geomorphology, water chemistry, and human impacts. Prerequisite: Instructor permission.

Credits: 4.

**GEOL 172 - Regional Geology**

Discussion of the geology of a selected region of North America. A four-week summer field trip to the area in question. Prerequisites: one other Geology course or permission.

Credits: 4.

**GEOL 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**GEOL 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**GEOL 197 - Research in Geology**

Supervised research and readings in a selected field of geology. Students from allied sciences, Mathematics, and Engineering may elect a research problem that combines their major field of study and geology. Prerequisite: Department permission.

Credits: 1-6.

**GEOL 198 - Research in Geology**

Supervised research and readings in a selected field of geology. Students from allied sciences, mathematics, and engineering may elect a research problem that combines their major field of study and Geology. Prerequisite: Department permission.

Credits: 1-6.

**GEOL 201 - Advanced Field Geology**

Advanced field mapping techniques, analysis of field data, preparation of geological maps and reports. Prerequisite: GEOL 260.

Credits: 3.

**GEOL 210 - Systems Dynamics & Earth Sci**

and behavior over time. Prerequisites: A major or minor in Analysis of generic systems with examples from physical and natural sciences. Geological systems emphasized. Laboratories involve computer analysis of system structure science, mathematics, natural resources, engineering, or permission of instructor. UG only.

Credits: 3.

**GEOL 217 - Vermont Field Geology**

Field observations of rocks and surficial materials across northern Vermont are utilized to decipher the region's geologic history. Reading complement field work.

Pre/co-requisites: Graduate student standing.

Credits: 4.

**GEOL 230 - Adv Igneous&Metamorphic Petrol**

Application of phase equilibria, elemental and isotopic data, and textural interpretations to problems in igneous and metamorphic petrology, stressing modern theories of tectonics and petrogenesis. Prerequisite: GEOL 131.

Credits: 4.

**GEOL 233 - Environmental Isotope Geochem**

Course focuses on stable isotope geochemistry of low temperature processes occurring on and near the earth surface through lecture, laboratory, and seminar.

Prerequisite: Introductory Chemistry.

Credits: 3.

**GEOL 234 - Global Biogeochemical Cycles**

Integrated perspective on biogeochemical cycles describing

Credits: 3.

**GEOL 235 - Geochemistry of Natural Waters**

Basic concepts of chemical equilibria applied to natural waters, including thermodynamics, pH, oxidation-reduction, weathering, and solution equilibria.

Prerequisites: Chemistry 1, 2.

Credits: 3.

**GEOL 240 - Tectonics**

Applications of igneous and metamorphic petrology to problems in tectonophysics, including petrochemistry of the earth's crust and upper mantle and the internal structure of orogenic belts. Prerequisite: GEOL 101, GEOL 110.

Credits: 3.

**GEOL 241 - Clastic Depositional Systems**

Selected readings and field studies emphasizing the interpretation of clastic sedimentary deposits including transportation, processes of sedimentation, and



geomorphology of ancient and recent sedimentary environments. Prerequisite: GEOL 153. Alternate years.

Credits: 3.

**GEOL 243 - Clastic Petrology Laboratory**

Study of clastic rocks in hand specimen and thin section. Prerequisite: Concurrent enrollment in GEOL 241.

Credits: 1.

**GEOL 245 - Carbonate Depositional Environ**

Alternate years.

Credits: 3.

**GEOL 247 - Carbonate Petrology Lab**

Study of carbonate rocks in hand specimen and thin section. Prerequisite: Concurrent enrollment in GEOL 245.

Credits: 1.

**GEOL 255 - Geohydrology**

Field-based projects address hydrologic processes in geological context; precipitation, runoff, ground water flow, river behavior, and hillslope stability. Stresses data analysis, writing, and practical approaches to water-related environmental problems. Prerequisite: Major in science or engineering or permission.

Credits: 4.

**GEOL 260 - Structural Geology**

Examines processes and problems concerning the mechanical behavior of the Earth's crust and surface. Includes rock deformation stress, strain, and the interpretation of geological structures. Prerequisite: GEOL 101, GEOL 110, PHYS 011, or Instructor permission.

Credits: 4.

**GEOL 261 - Geodynamics**

Examines physical evolution of the Earth on regional to global scale. Project oriented, focusing on analysis and interpretation of geologic and geophysical data. Prerequisites: GEOL 101 and 110 or permission. UG only.

Credits: 4.

**GEOL 272 - Regional Geology**

Discussion of the geology of a selected region of North America; a four-week summer field trip to the area in question. Prerequisite: GEOL 101, GEOL 110, equivalent. or

Credits: 4.

**GEOL 273 - Geology of the Appalachians**

Origin of mountain belts; the Appalachian mountain system discussed in terms of tectonics and geologic processes active in modern continental margins.

Prerequisite: GEOL 101, GEOL 110, or Instructor permission.

Credits: 3.

**GEOL 278 - Principles of Aquatic Systems**

See NR 278.

Credits: 3.

**GEOL 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**GEOL 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**GEOL 301 - Intro to Graduate Studies**

in the Geosciences. Prerequisite: Graduate standing in For first year graduate students in Geology. Includes orientation to faculty, abstract and grant writing, comprehensive exams, talk preparation and scientific method Geology.

Credits: 1.

**GEOL 302 - Intro Graduate Studies Geology**

For first year graduate students in Geology. Includes orientation to faculty, abstract and grant writing, comprehensive exams, talk preparation and scientific method in the Geosciences. Prerequisite: Graduate standing in Geology.

Credits: 1.

**GEOL 350 - Paleogeography**

Paleopositions of continents and the distribution of land areas and ocean basins through geologic time in the context of plate tectonics. Prerequisite: Instructor permission.

Credits: 3.

**GEOL 351 - Surface Proc & Quaternary Geol**

Discussion and critique of scientific literature pertaining to Earth surface history and processes. Critical examination of author's methods, data, and assumptions. Student-led discussions. Specific focus changes yearly. Prerequisites: Graduate standing in science, natural resources or engineering, or Instructor permission.

Credits: 1-3.

**GEOL 352 - Environmental Geology Seminar**

Geologic constraints on environmental problems including: groundwater flow, contaminant transport, slope stability, climate change, sedimentation, deforestation and earthquake hazards. Extensive readings and student-led discussions.

Prerequisites: Graduate standing in science, natural resources, or engineering, or Instructor permission.

Credits: 1-3.

**GEOL 353 - Crit Writing Earth&Env Science**

Review of manuscripts and grants prepared by UVM students and faculty. Learn to

write better by presenting writing, grammar and logic critiques in a seminar format.

Prerequisite: Instructor permission.

Credits: 1-2.

### **GEOL 360 - Structural Anyl Deformed Rocks**

Mechanisms of rock deformation; fracture phenomena and analysis; fault zone characteristics; fold generation analysis. Stress and strain interpretation of deformational features in rocks and minerals. Field work. Prerequisite: GEOL 260 or equivalent.

Credits: 4.

### **GEOL 361 - Advanced Structural Geology**

Selected topics in analytical structural geology. Prerequisite: GEOL 260 or equivalent.

Credits: 3.

### **GEOL 371 - Advanced Readings**

Readings and research problems intended to contribute to the program of graduate students in areas of geology for which formal courses are not available.

Prerequisite: Graduate standing in Geology.

Credits: 1-3.

### **GEOL 391 - Master's Thesis Research**

Credits: 1-9.

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Paul Robert Bierman  
 Professor of Geology  
 Professor of the Rubenstein School of Environment and Natural Resources  
 Appointed in [1993](#)  
[Geology Department](#)  
[The Rubenstein School of Environment and Natural Resources](#)  
 BA 1985 [Williams College](#)  
 MS 1990 [University of Washington](#)  
 PHD 1993 [University of Washington](#)  
[Search Courses for Paul Bierman](#)

Gregory K. Druschel  
 Adjunct Associate Professor of Geology  
 Appointed in [2004](#)  
[Geology Department](#)  
[The Rubenstein School of Environment and Natural Resources](#)  
 BS 1995 [Muskingum College](#)  
 MS 1998 [Washington State University](#)  
 PHD 2002 [University of Wisconsin Madison](#)  
[Search Courses for Gregory Druschel](#)

Lesley-Ann Dupigny-Giroux  
 Associate Professor of Geography  
 Associate Professor of Geology  
 Appointed in [1997](#)  
[Geography Department](#)  
[Geology Department](#)

Education  
BS 1989 [University of Toronto](#)  
• Graduate College  
MS 1992 [McGill University](#)  
PHD 1996 [McGill University](#)  
• Honors College  
[Search Courses for Lesley-Ann Dupigny-Giroux](#)

• School of Business  
Administration  
John M. Hughes  
Professor of Geology  
Appointed in [2006](#)  
• The Rubenstein  
School of  
Geology Department  
Environment and  
BA 1975 [Franklin and Marshall College](#)  
Natural Resources  
MA 1978 [Dartmouth College](#)  
PHD 1981 [Dartmouth College](#)

[Search Courses for John Hughes](#)

Faculty and  
Administration  
Keith Andrew Klepeis  
Professor of Geology  
Appointed in [1999](#)

Catalogue Archives  
[Geology Department](#)  
BA 1987 [Colgate University](#)  
PHD 1993 [University of Texas Austin](#)  
[Search Courses for Keith Klepeis](#)

Andrea Lini  
Associate Professor of Geology  
Chairperson of Geology  
Appointed in [1995](#)  
[Geology Department](#)  
MA 1988 [ETH-Zurich](#)  
PHD 1994 [ETH-Zurich](#)  
[Search Courses for Andrea Lini](#)

Charlotte Jean Mehrrens  
Co-Director of the Environmental Science Program  
Professor of Geology  
Appointed in [1981](#)  
[Geology Department](#)  
BA 1974 [SUNY Plattsburgh](#)  
MS 1976 [University of Chicago](#)  
PHD 1979 [University of Chicago](#)  
[Search Courses for Charlotte Mehrrens](#)

Beverley Coghill Wemple

Associate Professor of Geography

Associate Professor of Geology

Appointed in [1999](#)

[Geography Department](#)

[Geology Department](#)

BA 1986 [University of Richmond](#)

MS 1994 [Oregon State University](#)

PHD 1998 [Oregon State University](#)

[Search Courses for Beverley Wemple](#)

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Stephen F. Wright

Senior Lecturer of Geology

Appointed in [1991](#)

[Geology Department](#)

BS 1978 [Pennsylvania State University](#)

MS 1988 [University of Minnesota Twin Cities](#)

PHD 1988 [University of Minnesota Twin Cities](#)

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## German and Russian Department

### Contact Information

University of Vermont  
 German and Russian Department  
 414-422A Waterman Building  
 85 South Prospect St  
 Burlington, VT 05405-0160

Phone: (802) 656-3430  
 Fax: (802) 656-8028  
 Email: [Janet.Sobieski@uvm.edu](mailto:Janet.Sobieski@uvm.edu)

[Web Site](#)

### Affiliations

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## German (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours of German courses at the 100 level or above, including [GERM 155](#), [GERM 156](#); [GERM 281](#) or [GERM 282](#); two courses of world literature or English; and two courses of European or German history.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## German (Undergraduate Minor)

### Specific Requirements

Five courses at the GERM 100 or GERM 200 level, one of which must be [GERM 155](#) or [GERM 156](#).

### Affiliations

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## Russian (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours of courses in Russian at the 100 level or above among which at least one course must be Russian literature in translation ([WLIT 118](#)); one additional course in English literature or world literature; one Russian history course; and two additional courses chosen from among the listings of the Russian and East European Area Studies Program. All course work to be chosen in consultation with the student's major advisor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Russian (Undergraduate Minor)

### Specific Requirements

[RUSS 051](#), [RUSS 052](#); four courses in Russian at the RUSS 100 or RUSS 200 level.

### Affiliations

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## Courses offered by the German and Russian Department

### Courses in German

#### **GERM 001 - Elementary**

An introduction to all aspects of contemporary standard German: Speaking, listening, reading, writing. Cultural components include topics such as: music, art, literature, and current events. No previous knowledge of German needed for 1.

Credits: 4.

#### **GERM 002 - Elementary**

An introduction to all aspects of contemporary standard

Credits: 4.

#### **GERM 051 - Intermediate**

Comprehensive review of German grammar, vocabulary-building skills, development of reading strategies and compositional abilities, study of contemporary German culture through literary texts. Prerequisite: 1, 2 or equivalent for 51.

Credits: 3.

#### **GERM 052 - Intermediate**

skills, development of reading strategies and compositional abilities, study of contemporary German culture through literary texts. Prerequisite: 1, 2 or equivalent for 51.

Credits: 3.

#### **GERM 095 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**GERM 096 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**GERM 103 - Composition & Conversation**

An intensive language course concentrating on more advanced syntax, vocabulary building, and idiomatic expression through written compositions, translations, and oral presentations. Prerequisite: GERM 052 or equivalent.

Credits: 3.

**GERM 104 - German News Media**

Analysis of journalistic style and content in news coverage of contemporary events as reported in newspapers, magazines, radio, and television in German-speaking countries. Prerequisite: GERM 052 or equivalent.

Credits: 3.

**GERM 121 - Culture & Civilization to 1900**

Historical, intellectual, and artistic developments of German culture and civilization from Roman times through the 19th century, stressing written and oral work.

Prerequisite: GERM 052 or equivalent.

Credits: 3.

**GERM 122 - 20th C Culture & Civilization**

052 or equivalent. Social, cultural, and political developments in the German-speaking countries since 1900, stressing written and oral components.

Prerequisite: GERM

Credits: 3.

**GERM 155 - Survey of German Lit to 1830**

Selected prose, drama, and poetry from Medieval through Baroque literature, in-depth readings and analyses of major works by Lessing, Goethe, Schiller, and the Romantics. Prerequisite: 52 or equivalent.

Credits: 3.

**GERM 156 - Survey of German Lit from 1830**

Major literary and intellectual movements and figures of the period through in-depth analyses of works by Buchner, Mann, Kafka, and Brecht. Prerequisite: 52 or equivalent.

Credits: 3.

**GERM 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**GERM 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**GERM 197 - Readings & Research**

Credits: 1-6.

**GERM 198 - Readings & Research**

Credits: 1-6.

**GERM 201 - Methods Research&Bibliography**

Introduction to tools and methods of research, including major bibliographical sources, reference works, dictionaries, editions, and journals concerned with German literature, language, and folklore. Prerequisite: Two 100-level courses.

Credits: 3.

**GERM 202 - Expository Writing**

Improvement of writing skills through work with authentic texts from different content areas (literature, media, science, business). Emphasis on stylistic development and sophisticated vocabulary-building. Prerequisite: Two 100-level courses.

Credits: 3.

**GERM 213 - History of the German Language**

Historical and linguistic development of the German language from Indo-European to the present, emphasizing sound shifts, the 16th century, and the modern age.

Prerequisite: GERM 155 or GERM 156; one other 100-level course.

Credits: 3.

**GERM 214 - Middle Ages**

Analysis and discussion of several "Minnesang" poets (esp. Walther and Neidhart), the Nibelungenlied, the courtly epics Erec, Parzival, and Tristan, and the satirical epic Helmbrecht. Prerequisite: GERM 155 or GERM 156; one other 100-level course.

Credits: 3.

**GERM 225 - Goethe**

Study of Goethe's accomplishments in poetry, drama, and the novel during major phases of his literary career: "Sturm und Drang," Classicism, and Romanticism.

Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 226 - Schiller**

Major attention will be paid to Schiller's development as a dramatist (from Die Rauber to Wilhelm Tell) as well as to his contributions to German Classicism.

Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 237 - 19th-Century Prose**

Literary and stylistic analysis of prose works by Tieck, Kleist, Stifter, Gotthelf, Droste-Hulshoff, Storm, Keller, and Hauptmann with emphasis on Romanticism, Poetic Realism, and Naturalism. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 238 - 19th Century Drama**

Analysis of plays by Tieck, Kotzebue, Kleiſt, Buchner, Grillparzer, Nestroy, Hebbel, and Hauptmann. Consideration of traditional Viennese "Volks theater" and the period's major literary movements. Prerequisite: GERM 155 or GERM 156 and one other 100-level course

Credits: 3.

**GERM 247 - German Lit from 1890 to 1945**

Naturalism, Symbolism, Expressionism and subsequent trends through readings of authors such as Hauptmann, Rilke, Kaiser, Kafka, Mann, and Brecht.

Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 248 - Contemporary German Literature**

Literary movements and their major representatives from 1945 to the present, including relevant sociopolitical, intellectual, and cultural aspects. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 251 - German Folklore**

Verbal folklore genres (fairy tales, legends, folk songs, and proverbs) treated in their relation to literature, mass media, and popular culture. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 252 - Faust**

Focus on one of the major themes of world literature. Readings include the "Volksbuch" of 1587, and works by Marlowe, Goethe, and Thomas Mann.

Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 263 - German Romanticism**

Study of major works by authors such as Friedrich Schlegel, Novalis, Brentano, Hoffmann, and Eichendorff in their literary, artistic, philosophical, and sociopolitical contexts. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 264 - German Lyric Poetry**

The lyric genre and the historical development of German poetry from the age of Goethe to the present. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 271 - Proverbs**

Diachronic and synchronic survey of German proverbs, proverbial expressions, and wellerisms, emphasizing their use and function in literature, art, mass media, advertisements, and oral communication. Prerequisite: GERM 155 or GERM 156



and one other 100-level course.

Credits: 3.

**GERM 273 - German Intellectual Movements**

A survey of developments in art, music, philosophy, and social thought from the Enlightenment to 1945, with particular attention to their impact on German literature. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 275 - Fin-de-Siecle**

Prevalent literary and intellectual movements at the turn of the 20th century in their historical, sociopolitical, and cultural contexts. Study of Nietzsche, Freud, Rilke, Hofmannsthal, Schnitzler, and Mann. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 276 - Brecht & the Modern Drama**

Brecht's revolutionary concept of "epic theatre" in theory and practice and its influence on subsequent dramatists, including Durrenmatt, Frisch, Handke, Hochhuth, Muller, and Weiss. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 278 - GDR Fiction**

GDR fiction in its literary, historical, and social contexts, with reference to major developments in the GDR from 1949-89. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 279 - German Short Story after 1945**

relation to historical, political, and cultural developments from 1945 to the present. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 281 - Sem in Lit Genre,Period,Theme**

Study of a literary genre, period, or theme through close readings of representative texts supplemented by lectures and reports on sociocultural context. May be repeated. Prerequisite: GERM 155 or GERM 156 and one other 100-level course.

Credits: 3.

**GERM 282 - Sem on Particular Author**

Study of author(s) through close readings of representative texts supplemented by lectures and reports on the works' socio-cultural context. May be repeated.

Credits: 3.

**GERM 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**GERM 296 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**GERM 391 - Master's Thesis Research**

Credits: 1-12.

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**Courses in Hebrew**

**HEBR 001 - Elementary**

The spoken language of everyday use with oral, aural, and written practice in speaking, reading, and comprehension.

Credits: 4.

**HEBR 002 - Elementary**

The spoken language of everyday use with oral, aural, and written practice in speaking, reading, and comprehension. Prerequisite: HEBR 001 or equivalent.

Credits: 4.

**HEBR 051 - Intermediate**

Reading, translation, and discussion in Hebrew of texts selected to show the development of Hebrew culture from Biblical times to the present. Prerequisites: 1, 2 or equivalent for 51; 51 for 52.

Credits: 3.

**HEBR 052 - Intermediate**

Reading, translation, and discussion in Hebrew of texts selected to show the development of Hebrew culture from Biblical times to the present. Prerequisites: 1, 2 or equivalent for 51; 51 for 52.

Credits: 3.

**HEBR 095 - Special Topics**

Credits: 1-3.

**HEBR 096 - Special Topics**

Credits: 1-3.

**HEBR 195 - Int Special Topics**

Credits: 1-3.

**HEBR 196 - Intermediate Special Topics**

Credits: 1-3.

**HEBR 197 - Readings & Research**

Credits: 1-6.

**HEBR 198 - Readings & Research**

Credits: 1-6.

## Courses in Russian

### **RUSS 001 - Elementary Russian**

An introduction to all aspects of contemporary standard Russian: speaking, listening, reading, writing. Cultural components include topics such as music, art, literature, and current events. No previous knowledge of Russian needed for RUSS 001.

Credits: 4.

### **RUSS 002 - Elementary Russian**

An introduction to all aspects of contemporary standard Russian: speaking, listening, reading, writing. Cultural components include topics such as music, art, literature, and current events. Prerequisite: RUSS 001 or equivalent.

Credits: 4.

### **RUSS 051 - Intermediate Russian**

structure of Russian. Continuation of cultural components. Prerequisite: RUSS 001, RUSS 002.

Credits: 4.

### **RUSS 052 - Intermediate Russian**

Continued practical work in all language skills (speaking, structure of Russian. Continuation of cultural components. Prerequisite: RUSS 051.

Credits: 4.

### **RUSS 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

### **RUSS 096 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

### **RUSS 101 - Phonology**

Practical work on Russian intonation, element order, and phonetics, using primarily Russian materials. Classroom and language laboratory work. May be taken together with RUSS 052. Prerequisite: RUSS 052 or concurrent enrollment in RUSS 052.

Credits: 3.

### **RUSS 121 - Composition & Conversation**

Continued practical work on all four language skills. Emphasis on oral and written self-expression. Presentations and compositions based on Russian-language media and literature. Prerequisite: RUSS 052

Credits: 3.

### **RUSS 122 - Composition & Conversation**

Continued practical work on all four language skills. Emphasis on oral and written self-expression. Presentations and compositions based on Russian-language media and literature. Prerequisite: RUSS 052.

Credits: 3.

**RUSS 141 - Reading Comprehension**

Development of contextual strategies for reading authentic texts on a number of content areas, primarily expository texts from Russian newspapers, magazines, historical and scientific documents. Prerequisite: RUSS 052.

Credits: 3.

**RUSS 142 - Listening Comprehension**

Intensive directed aural work with authentic Russian-language media (especially television, radio, and films), supplemented by work on vocabulary development and listening strategies. Prerequisite: RUSS 052.

Credits: 3.

**RUSS 161 - Russian Lexicology**

Study of Russian word roots and derivational morphology to increase vocabulary recognition and retention, building on correspondences with English/Latinic equivalent roots where possible. Prerequisite: RUSS 052.

Credits: 3.

**RUSS 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**RUSS 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**RUSS 197 - Readings & Research**

Credits: 1-6.

**RUSS 198 - Readings & Research**

Credits: 1-6.

**RUSS 201 - Survey of Russian Literature**

Readings and discussions about Russian literature to the rise of modernism. Particular attention to the social and historical context of the 19th century novel. Prerequisite: RUSS 052. WLIT 118 recommended.

Credits: 3.

**RUSS 202 - Survey 20th Century Russ Lit**

Readings and discussions about Russian literature from the rise of modernism to present. Particular attention to function of literature in Soviet society. Prerequisite: RUSS 052. WLIT 118 recommended.

Credits: 3.

**RUSS 221 - Cult & Civ to 1905 Revolution**

Social, cultural, and political institutions from the time of Peter the Great to the 1905 revolution. Particular attention to Russian music, art, and literature.

Prerequisite: RUSS 052.

Credits: 3.

**RUSS 222 - Cult & Civ in the 20th Century**

Social, cultural, and political institutions from the 1905 revolution to the present. Particular attention to tensions between official and unofficial culture during the Soviet period. Prerequisite: RUSS 052.

Credits: 3.

**RUSS 251 - Russian News Media**

Analysis of journalistic style and content in news coverage of contemporary events as reported in Russian newspapers and radio and television broadcasts.

Prerequisite: RUSS 052 ,RUSS 141, or RUSS 142 recommended.

Credits: 3.

**RUSS 271 - Slavic Linguistics**

The linguistic prehistory of Slavic. Linguistic history of the Russian language: introduction to Old Church Slavic and Old Russian, tracing Slavic declensional development. Prerequisite: One 100-level Russian course or instructor's permission.

Credits: 3.

**RUSS 281 - Sem on Sel Lit Genre or Period**

Study of a literary genre or period through close readings of representative texts supplemented by lectures and reports on sociocultural context. May be repeated.

Prerequisite: One 100-level Russian course.

Credits: 3.

**RUSS 282 - Seminar on Selected Author(s)**

Study of author(s) through close readings of representative texts supplemented by lectures and reports on the works' sociocultural context. May be repeated.

Prerequisite: One 100-level Russian course.

Credits: 3.

**RUSS 295 - Advanced Readings & Research**

See Schedule of Courses for specific titles.

Credits: 3.

**RUSS 296 - Advanced Readings & Research**

See Schedule of Courses for specific titles.

Credits: 3.

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > German and Russian Department > Faculty

## Faculty for German and Russian Department

Gideon Bavly

Lecturer I of German and Russian

Appointed in 1997

German and Russian Department

BA 1987 Tel Aviv College of Administration

MS 1995 Saint Michaels College

Search Courses for Gideon Bavly

Adriana E. Borra

Lecturer of German and Russian

Lecturer of Romance Languages and Linguistics

Appointed in 2006

German and Russian Department

Romance Languages and Linguistics Department

MA 1994 University Freiburg

Diploma 1999 State of Bavaria

Search Courses for Adriana Borra

Theresia Hoeck

Senior Lecturer of German and Russian

Appointed in 1996

German and Russian Department

BA 1973 University of Vienna

MA 1989 University of Vermont

MA 1992 Antioch University New England

Search Courses for Theresia Hoeck

Education

- Graduate College Dennis Francis Mahoney  
Professor of German and Russian
- Honors College Appointed in [1979](#)  
[German and Russian Department](#)  
BA 1971 [College of the Holy Cross](#)  
MA 1973 [University of Massachusetts Amherst](#)  
PHD 1977 [University of Massachusetts Amherst](#)  
[Search Courses for Dennis Mahoney](#)
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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Kevin James McKenna  
Professor of German and Russian  
Appointed in [1984](#)  
[German and Russian Department](#)  
BA 1970 [Oklahoma State University](#)  
MA 1971 [University of Colorado Boulder](#)  
PHD 1977 [University of Colorado Boulder](#)  
[Search Courses for Kevin McKenna](#)

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Wolfgang Mieder  
Professor of German and Russian  
Appointed in [1971](#)  
[German and Russian Department](#)  
BA 1966 [Olivet College](#)  
MA 1967 [University of Michigan Ann Arbor](#)  
PHD 1970 [Michigan State University](#)  
[Search Courses for Wolfgang Mieder](#)

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Kenneth Lawrence Nalibow  
Associate Professor of German and Russian  
Appointed in [1970](#)  
[German and Russian Department](#)  
BA 1964 [University of Vermont](#)  
MA 1967 [University of Pennsylvania](#)  
PHD 1970 [University of Pennsylvania](#)  
[Search Courses for Kenneth Nalibow](#)

---

Helga Schreckenberger  
Chairperson of German and Russian  
Professor of German and Russian  
Appointed in [1986](#)  
[German and Russian Department](#)  
MA 1980 [University of Kansas](#)

MPHI 1981 [University of Kansas](#)

MA 1984 [University of Kansas](#)

PHD 1985 [University of Kansas](#)

[Search Courses for Helga Schreckenberger](#)

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## History Department

### Contact Information

*University of Vermont  
History Department  
Wheeler House  
133 South Prospect St  
Burlington, VT 05405*

Phone: (802) 656-3180  
Fax: (802) 656-8794  
Email: [Kathleen.Truax@uvm.edu](mailto:Kathleen.Truax@uvm.edu)

[Web Site](#)

### Affiliations

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > History Department > Academic Offerings > History (B.A.)

## History (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three hours including six hours of any approved sequence of courses at the introductory level (00), nine hours at the intermediate level (100), and three hours at the advanced level (200). They must also include 15 hours of concentration in one of the Department's three areas of study (Western Hemisphere; Europe; Africa/Asia/Latin America) and six hours in each of the others. The 15-hour concentration must include one course at the intermediate level and one seminar at the advanced level. (The Western Hemisphere concentration must include three hours in Canadian or Latin American history.)

### Affiliations

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## History (Undergraduate Minor)

### Specific Requirements

Eighteen hours of history including three hours in any course at the introductory level (00), plus nine hours at the intermediate level (100) or advanced level (200). These must also include six hours in each of two of the department's areas of study (Western Hemisphere; Europe; Africa/Asia/Latin America).

### Affiliations

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## Courses in History

### HST 009 - Global History to 1500

The development and cross-fertilization of civilizations in Eurasia, Africa, and the Americas from about 3500 B.C.E. to A.D. 1500.

Credits: 3.

### HST 010 - Global History Since 1500

Character, development, and emerging interdependence of the world's major civilizations since 1500.

Credits: 3.

### HST 011 - History of the US

Survey from the pre-Revolutionary period to 1876.

Credits: 3.

### HST 012 - History of the US

Survey from 1876 to the present.

Credits: 3.

### HST 013 - Ideas in the Western Tradition

Great books of Western civilization in their historical setting. Greece and Rome. Prerequisites: Concurrent enrollment in English 27, 28; Religion 27, 28; Integrated Humanities Program. Crosslist: CLAS 013

Credits: 3.

### HST 014 - Ideas in the Western Tradition

Great books of Western civilization in their historical setting. Renaissance to Existentialism. Credit will not be given for History 14 and History 25 or 26.

Prerequisites: Concurrent enrollment in English 27, 28; Religion 27, 28; Integrated Humanities Program.

Credits: 3.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**HST 019 - Western World Since 1945**

Comparative history of European nations and the United States since 1945.  
Credits: 3.

**HST 021 - Classical Greek Civilization**

Cross-listed with: CLAS 021.  
Credits: 3.

**HST 022 - Classical Roman Civilization**

Cross-listed with CLAS 023.  
Credits: 3.

**HST 023 - The Birth of Europe**

Survey of history of Western Europe from the late Roman Empire to the stabilization of Medieval Civilization around A.D. 1000.  
Credits: 3.

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**HST 024 - High & Later Middle Ages**

The stabilization and expansion of Western European civilization in the Age of the Crusades; the crisis of the 14th century; 15th century recovery.  
Credits: 3.

**HST 025 - European Civilization to 1815**

Introduction to political, social, and intellectual movements which have shaped the foundations of Western civilization from the Renaissance to the French Revolution.  
Credits: 3.

**HST 026 - Europe 1815 - 1945**

Europe from the fall of Napoleon to the end of World War II, focusing on political, social, economic, and intellectual developments.  
Credits: 3.

**HST 027 - Modern Eastern Europe**

Eastern Europe since 1772, especially areas comprising present-day states of Bosnia-Herzegovina, Croatia, the Czech Republic, Hungary, Macedonia, Poland, Slovakia, Slovenia, and Yugoslavia. Focus on politics and culture of nationalism.  
Credits: 3.

**HST 035 - History of India to 1750**

Introduction to the early history of the Indian subcontinent, focusing on the political, cultural, and religious forces that shaped the region before British colonialism.  
Credits: 3.

**HST 036 - History of India since 1750**

Survey of the modern history of South Asia from the advent of British colonialism to the present, focusing on conflict.  
Credits: 3.

**HST 040 - African History to C-1870**

Introduction to the political, social and economic history of Africa, focusing on the major events and forces that shaped the continent before the colonial period.

Credits: 3.

**HST 041 - Africa From C-1870 to Present**

Introduction to African history from European conquest to the present, with special attention paid to African resistance, the nature of colonialism, and African independence movements.

Credits: 3.

**HST 045 - Hst Islam&Middle East to 1258**

Introduction to the major institutions evolved in the Middle East from the advent of Islam to the Mongol conquest of Baghdad in 1258.

Credits: 3.

**HST 046 - Hst Islam&Mid East Since 1258**

Islamic Middle East since the Mongol conquest of Baghdad

Credits: 3.

**HST 050 - China & Japan to 1800**

Historical development of the politics, economics, social structure, philosophy, religion, and the arts in East Asia from neolithic times to 1800.

Credits: 3.

**HST 051 - China & Japan Since 1800**

Continuity and change in the politics, economics, society, and culture of China and Japan in the 19th and 20th centuries.

Credits: 3.

**HST 062 - Colonial Latin American Hist**

Comparative survey concentrating on the complex cultural, economic, and political development of Spanish and Portuguese America from pre-Conquest to 1820.

Credits: 3.

**HST 063 - Modern Latin American History**

Comparative survey concentrating on Latin America from the independence movements to the present with emphasis on cultural, political, and economic development and U.S. intervention.

Credits: 3.

**HST 065 - History of Canada**

Survey of Canadian history from aboriginal settlement to the present. Themes include Indian-White relations, colonial societies, national identities, American influence. Field trip to Canada.

Credits: 3.

**HST 068 - History U.S. Peoples of Color**

Comparative survey of historical experiences of African-Americans, Latinos,

Asian-Americans, and Native Americans in U.S. Racism, conquest, slavery, exploitation, civil rights, militancy, liberation movements, and cultural renaissance.  
Credits: 3.

**HST 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.  
Credits: 1-6.

**HST 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.  
Credits: 1-3.

**HST 115 - History of Poland**

History of the Polish people and Polish state from the 10th century to the present. Strong emphasis on the 20th century. Pre/co-requisites: HST 10 or 26 or 27.  
Cross-listed: HS 115  
Credits: 3.

**HST 116 - Medieval Mystics & Heretics**

This course covers the explosion of new religious ideas that characterized the period 1100-1500, and the Church's response to these challenges. Pre/co-requisites: Hst 23 or 24, or 6 hours of History, or  
Credits: 3.

**HST 120 - Historical Geography of Europe**

Cross-listed with: GEOG 155.  
Credits: 3.

**HST 121 - History of Greece**

Cross-listed with CLAS 121.  
Credits: 3.

**HST 122 - History of Rome**

Cross-listed with: CLAS 122.  
Credits: 3.

**HST 125 - The Renaissance**

European society from the 14th to early 16th century, emphasizing the transition from medieval to "modern" society and the roots of Renaissance Italy's cultural and artistic brilliance. Prerequisite: 9 or 10 or 14 or 25 or 26.  
Credits: 3.

**HST 126 - The Reformation**

Reformation and their impact on the social, political, economic, and cultural movements of the era. Prerequisites:  
Credits: 3.

**HST 127 - European Culture&Soc 1914-1945**

Survey of European high modernism, focusing on the avant-garde, Stalinism,



fascism, and popular culture. Prerequisite: 26 or 128 or three hours history.

Credits: 3.

**HST 128 - Eur Soc & Culture 1880-1920**

European society and culture before and during "The Great War." Transitions in the arts, philosophy, science and technology, industry, dance, theatre, attitudes, and diplomacy. Prerequisite: 26.

Credits: 3.

**HST 130 - European Intellectual History**

The history of ideas in Europe from the 15th to the 20th centuries. Topics vary according to instructor. Prerequisites: 25 or 26.

Credits: 3.

**HST 132 - Modern Irish History**

Ireland 1600 to present. English subjugation of Ireland, Anglo-Irish, emergence of Irish nationalism, Irish Literary Renaissance, Irish Free State, and ongoing problem of Northern Ireland. Prerequisite: 25 or 26.

Credits: 3.

**HST 137 - History of Russia**

Russian political, social, and intellectual history from Kievan Rus' to the Revolutions of 1917, focusing on the Imperial period (1700-1917). Prerequisite: 10 or 26.

Credits: 3.

**HST 138 - History of the Soviet Union**

Soviet political and social history, 1917-1991, centering on the Stalin era and on efforts of post-Stalin regimes to deal with the Stalinist legacy. Prerequisite: 10, 26 or 137.

Credits: 3.

**HST 139 - Modern Germany**

Political, cultural, and social history of Germany from unification in 1871 through the Wilhemine empire, Weimar Republic, Nazi era, and postwar period.

Prerequisites: 10 or 14 or 26 or work in German.

Credits: 3.

**HST 140 - W Africa:Holy War-Colonialism**

Lecture survey. Topics include: Sudanic states, Islamic revolution, slavery and the slave trade, European scramble and the African resistance, colonialism and the colonial state, African nationalism. Prerequisite: HST 040 or HST 041.

Credits: 3.

**HST 141 - History of Southern Africa**

Lecture survey, covering the history of Southern Africa from the Bantu Migrations to the end of Apartheid. Prerequisite: HST 040 or HST 041.

Credits: 3.

**HST 142 - Nigeria:Giant of Africa**

History of Nigeria from earliest times to the present, concentrating on the impact of colonial conquest, nationalism and the politics and economics Instructor permission.

Credits: 3.

**HST 146 - History of Modern Middle East**

046; Instructor permission.

Credits: 3.

**HST 149 - History of Ancient Near East**

Survey of primary civilizations of Egypt and Mesopotamia and the secondary cultures of Anatolia, Syria-Palestine, Assyria, and Persia. Prerequisites: HST 009 or CLAS 021 (HST 021) or appropriate work in Classics. Cross-listed with: CLAS 149.

Credits: 3.

**HST 150 - China:The 19th&20th Centuries**

China from the late Qing Dynasty to the present, with particular attention to the influence of Western imperialism, the process of revolution, and the Communist era. Prerequisite: Six hours of history, 50 recommended.

Credits: 3.

**HST 151 - Modern Japan**

Transition from tradition to modernity in Japan from the Meiji Restoration, 1868 to the present. Prerequisite: Six hours of history, 50 recommended.

Credits: 3.

**HST 152 - The Chinese Revolution**

Examination of the ongoing process and significance of the Chinese Revolution of the 20th century, emphasizing the socio-economic and cultural aspects of the changes it wrought. Prerequisite: Six hours of History; HST 051 recommended.

Credits: 3.

**HST 157 - Greek Feminism**

The construction of the status of women in ancient Greek society. Readings include lyric, tragic, and comic poetry, Prerequisite: Sophomore standing; three hours in literature, History, Anthropology, or Sociology. Cross-listed with: CLAS 157, WLIT 157, WGST 157.

Credits: 3.

**HST 161 - Caribbean & Latin American Hst**

Topics include colonialism, plantation economy, slavery, race relations, gender issues, economic development, and U.S. influence. Prerequisite: HST 062 or HST 063 or permission.

Credits: 3.

**HST 163 - Early Caribbean History**

Exploration of the economic, political and cultural developments in the Caribbean,

pre-Conquest to the 19th century. Prerequisite: Three hours History; HST 062 or HST 063 recommended.

Credits: 3.

**HST 164 - Mod Carib Hist:Cannons-Cricket**

Exploration of the economic, political and cultural developments in the Caribbean, 19th century to the present. Prerequisite: Three hours History; HST 062 or HST 063 recommended.

Credits: 3.

**HST 165 - Canadian-American Relations**

Canada's relationship with the U.S. from the Revolutionary War to the present, emphasizing diplomatic, economic, social, and environmental relations in the 19th and 20th centuries. Prerequisite: Three hours in U.S. or Canadian history.

Credits: 3.

**HST 166 - Environmtl History of N America**

Examination of human-environmental interaction on the North American continent over the past five hundred years. Pre/co-requisite: Three hours History. Cross-listed with: ENVS 166.

Credits: 3.

**HST 168 - Native American History**

A survey of North American Indian history from European contact to the present. Cultural and military conflicts, resistance movements, accommodation, and cultural adaptation within the U.S. Prerequisite: Three hours History.

Credits: 3.

**HST 169 - Hist Native American Thought**

An examination of Native American philosophies, spiritualities, political theories, and ecological perspectives. Traditional Native American thought, intellectuals and intellectual movements, and contemporary resistance and reform movements.

Prerequisite: Three hours.

Credits: 3.

**HST 170 - Historical Geography of the US**

(Same as Geography 170.)

Credits: 3.

**HST 171 - Social History of the U.S.**

Selected topics in history of American society, including community structures, family life, work patterns, value systems, social class, and mobility. Prerequisite: HST 011 or HST 182.

Credits: 3.

**HST 172 - Social History of the U.S.**

Selected topics in history of American society, including community structures, family life, work patterns, value systems, social class, and mobility. Prerequisite: HST 012 or HST 182.

Credits: 3.

**HST 173 - US Foreign Relations to 1914**

The domestic and international contexts of U.S. relations with the rest of the world, 1776-1914. Prerequisites: 10 or 11.

Credits: 3.

**HST 174 - US Foreign Relations 1914 On**

The domestic and international contexts of U.S. relations with the rest of the world, 1914-present. Prerequisites: 10 or 12.

Credits: 3.

**HST 177 - American Revolution**

Survey of the Revolutionary Era, 1760-1791. Causes of the Revolution, War for Independence, establishment of the Constitution. Prerequisite: Six hours of history or other social sciences of which History 25 is highly recommended.

Credits: 3.

**HST 179 - U.S. History Since 1960**

Topical review of U.S. history since 1960, emphasizing problems of interpreting and reconstructing the recent past. Prerequisite: 12.

Credits: 3.

**HST 181 - Film and History**

Topics in the history of American and European cinema and society, focusing on the filmmaker as historian and the film as historical artifact. Prerequisite: Three hours History or Film.

Credits: 3.

**HST 182 - History of Women in the US**

Survey of the origins and changes in images, status, and roles of women in American society since the colonial period. Prerequisite: Three hours in History (HST 011 or HST 012 recommended), or WST minor. Cross-listed with: WST 161.

Credits: 3.

**HST 183 - US Military History**

Development of the U.S. military establishment within the framework of U.S. history from the Colonial era to the present. Prerequisite: HST 010, HST 011, or HST 012.

Credits: 3.

**HST 184 - Vermont History**

Survey of Vermont history from early times to the present. Prerequisite: HST 011 or HST 012. Cross-listed with: VS 184.

Credits: 0-3.

**HST 187 - Afr Amer Hst:1619 to Civil War**

Economic, social, political, and intellectual developments in U.S. history as they have affected and been affected by African-Americans, 1619 to Civil War.

Prerequisite: Three hours History.

Credits: 3.

**HST 188 - Afr Amer Hst:Civil War-present**

Economic, social, political, and intellectual developments in U.S. history as they have affected and been affected by African-Americans, Civil War to present.

Prerequisite: Three hours History.

Credits: 3.

**HST 189 - Hist African-American Women**

An exploration of the experiences of women of African descent from their arrival in America to contemporary times. Prerequisite: Any one of the following: HST 011, HST 012, HST 182, HST 187, HST 188, WGST 073, HST 174, HST 235, HST 273.

Credits: 3.

**HST 190 - The Holocaust**

Study of the background, events, and aftermath of the Holocaust in Nazi Germany and Europe under German control. Prerequisite: 10 or 26 or 27 or instructor's permission.

Credits: 3.

**HST 191 - World War II**

Causes, conduct, and consequences of global war from 1931-1945, including social, economic, political, and diplomatic as well as military aspects. Prerequisite: 10 or 12 or 26 or 51.

Credits: 3.

**HST 192 - Sp Meth Sec Ed for Soc Studies**

(Same as Education 179.) Social studies curricula and selected social studies topics. (Not acceptable toward fulfilling Arts and Sciences College major requirements.) Prerequisite: Acceptance in teacher certification program.

Credits: 3.

**HST 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisites: Six hours of history or permission.

Credits: 0-3.

**HST 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisites: Six hours of history or permission.

Credits: 0-3.

**HST 197 - Readings & Research**

Prerequisite: May be prescribed by an individual Instructor; Junior/Senior standing.

Credits: 3-6.

**HST 198 - Readings & Research**

Prerequisite: May be prescribed by an individual Instructor; Junior/Senior standing.  
Credits: 3-6.

**HST 199 - Internship in History**

Supervised cooperative internship work in history in archives, museums, libraries, etc. To be individually arranged for each student. Prerequisite: Junior/Senior standing; department permission.  
Credits: 3-6.

**HST 201 - History on the Land**

(Same as Historic Preservation 201; Art 201.)  
Credits: 3.

**HST 209 - Seminar in Global History**

since 1500.  
Credits: 3.

**HST 210 - Seminar in Global History**

Selected topics on the nature and results of interactions among the world's peoples. HST 209: to 1500. HST 210: since 1500. Prerequisite: Minimum Junior standing; twelve hours of History including HST 009 or HST 010.  
Credits: 3.

**HST 221 - Seminar in Ancient History**

(See Classics 221, 222.)  
Credits: 3.

**HST 222 - Seminar in Ancient History**

(See Classics 221, 222.)  
Credits: 3.

**HST 224 - Seminar in Medieval Europe**

Selected topics on Europe from the Fall of Rome to the Renaissance.  
Prerequisites: Twelve hours of history including 23 or 24; junior, senior, or graduate standing.  
Credits: 3.

**HST 225 - Seminar in Early Modern Europe**

Selected topics on European history from the Renaissance to the French Revolution. Prerequisite: Junior/Senior/Graduate standing and twelve hours of History.  
Credits: 3.

**HST 226 - Seminar in Modern Europe**

Selected topics on European history from 1815 to present. Prerequisites: Junior, senior, or graduate standing; 12 hours history.  
Credits: 3.

**HST 227 - Seminar in Modern Europe**

Selected topics on European history from 1815 to present. Prerequisites: Junior, senior, or graduate standing; 12 hours history.

Credits: 3.

**HST 228 - Seminar in Popular Culture**

History of the attitudes of ordinary people towards every day life in European society from the Middle Ages to the present. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.

**HST 237 - Seminar in Russia before 1917**

Selected topics in Russian intellectual, social, and cultural history focusing on the period 1825-1917. Prerequisites: Junior, senior, or graduate standing, 12 hours of history including 137.

Credits: 3.

**HST 238 - Seminar in Soviet History**

Selected topics in Soviet social and cultural history from the Bolshevik Revolution to the death of Stalin (1917-53). Prerequisite: Junior/Senior/Graduate standing; twelve hours of History including HST 138.

Credits: 3.

**HST 240 - Comparative Slavery:Hist Persp**

History of slavery from a comparative perspective, including Classical Antiquity, Islam and the Middle East, Africa, Latin America, and the Southern United States. Prerequisite: Minimum Junior standing.

Credits: 3.

**HST 241 - Seminar in African History**

Topics in African history. Generally, the seminar will focus on one of three themes: Islam, slavery or urbanism. Prerequisite: Junior/Senior/Graduate standing; twelve hours History.

Credits: 3.

**HST 250 - Seminar in East Asian History**

Topics in the history of East Asia. Prerequisite: Junior/ Senior/Graduate standing; twelve hours of History.

Credits: 3.

**HST 252 - Seminar on China**

Selected topics on the history of China. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History, including HST 150 or equivalent.

Credits: 3.

**HST 262 - Sem Caribbean & Latin Amer Hst**

Selected topics in Caribbean and Latin American history. Prerequisite: Junior/Senior/Graduate standing; HST 062 or HST 063, or permission.

Credits: 3.

**HST 265 - Seminar in Canadian History**

Topics in 19th and 20th century Canadian history; national development, regionalism, multiculturalism, and international relations. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.

**HST 271 - Seminar in US Social History**

Prerequisite: Minimum Junior standing;

Credits: 3.

**HST 272 - Seminar in US Social History**

Topics in U.S. Social History. HST 271: to the Civil War; HST 272: Civil War to the present. Prerequisite: Junior/Senior/ Graduate standing; twelve hours of History.

Credits: 3.

**HST 273 - Seminar in Modern U.S. History**

Selected topics in U.S. history, among them foreign relations, the role of the presidency, World War II, and the Cold War. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.

**HST 274 - Seminar in Modern U.S. History**

Selected topics in U.S. history, among them foreign the Cold War. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.

**HST 284 - Seminar in Vermont History**

Vermont Historical Society, and the Vermont State Archives. Prerequisite: Junior/Senior/Graduate standing; twelve hours History, including HST 184 or permission.

Credits: 3.

**HST 287 - Seminar in Historiography**

Topics and methods in contemporary historical writing. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.

**HST 295 - Special Topics Seminar**

See Schedule of Courses for specific titles. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.

**HST 296 - Special Topics Seminar**

See Schedule of Courses for specific titles. Prerequisite: Junior/Senior/Graduate standing; twelve hours of History.

Credits: 3.

**HST 300 - Graduate Tutorial**

Variable credit.



Credits: 3-6.

**HST 301 - Intro to Grad Study in History**

Historical methods, philosophy of history, and the history of history writing.

Credits: 3.

**HST 351 - American Cultural History**

Intended primarily for students in Historic Preservation, but open to other Graduate students.

Credits: 3.

**HST 391 - Master's Thesis Research**

Required of all candidates for the M.A. Normally arranged for two semesters at three hours each. Credits: 1-6.

Credits: 1-6.

**HST 395 - Special Topics**

Credits: 3.

**HST 397 - Special Readings and Research**

Directed individual study of areas not appropriately covered by existing courses.

Variable credit. Credits 1-6.

Credits: 1-6.

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## Faculty for History Department

Alfred J. Andrea

Professor of History Emeritus

[History Department](#)

[Search Courses for Alfred Andrea](#)

Dona L. Brown

Professor of History

Appointed in [1994](#)

[History Department](#)

AB 1978 [Bryn Mawr College](#)

MA 1983 [University of Massachusetts Amherst](#)

PHD 1989 [University of Massachusetts Amherst](#)

[Search Courses for Dona Brown](#)

Jacqueline B Carr

Associate Professor of History

Appointed in [2004](#)

[History Department](#)

BA 1989 [University of California Berkeley](#)

MA 1992 [California State University Sacramento](#)

PHD 1998 [University of California Berkeley](#)

[Search Courses for Jacqueline Carr](#)

Paul Raymond Deslandes

Associate Professor of History

Chairperson of the History Department

Education Appointed in [2004](#)  
[History Department](#)

- Graduate College BA 1987 [Trinity College](#)
- Honors College MA 1989 [University of Toronto](#)
- School of Business Administration PHD 1996 [University of Toronto](#)  
[Search Courses for Paul Deslandes](#)

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• The Rubenstein School of Environment and Natural Resources Bogac A. Ergene  
Associate Professor of History  
Appointed in [2001](#)  
[History Department](#)  
BSC 1992 [Middle East Technical University](#)  
MSC 1993 [London School of Economics and Political Science](#)  
MSC 1995 [Middle East Technical University](#)  
PHD 2001 [Ohio State University](#)

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Erik W. Esselstrom  
Associate Professor of History  
Appointed in [2004](#)  
[History Department](#)  
BA 1994 [San Jose State University](#)  
MA 1996 [University of Oregon](#)  
PHD 2004 [University of California Santa Barbara](#)  
[Search Courses for Erik Esselstrom](#)

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Sean Linscott Field  
Associate Professor of History  
Appointed in [2003](#)  
[History Department](#)  
AB 1992 [University of Michigan Ann Arbor](#)  
MA 1997 [Northwestern University](#)  
PHD 2002 [Northwestern University](#)  
[Search Courses for Sean Field](#)

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Ian G. Grimmer  
Lecturer of History  
Appointed in [2003](#)  
[History Department](#)  
BA 1991 [University of California Santa Cruz](#)  
MA 1998 [University of Vermont](#)  
MA 2000 [University of Chicago](#)  
PHD 2010 [University of Chicago](#)

[Search Courses for Ian Grimmer](#)

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Melanie Susan Gustafson  
Associate Professor of History  
Appointed in [1990](#)  
[History Department](#)  
BS 1981 [University of Wyoming](#)  
MA 1983 [Sarah Lawrence College](#)  
PHD 1993 [New York University](#)

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Jonathan D. Huener  
Associate Professor of History  
Appointed in [1996](#)  
[History Department](#)  
BA 1985 [The College of Wooster](#)  
AM 1990 [University of Illinois Urbana-Champaign](#)  
PHD 1998 [University of Illinois Urbana-Champaign](#)

[Search Courses for Jonathan Huener](#)

---

Patrick H. Hutton  
Professor of History Emeritus  
Appointed in [1968](#)  
[History Department](#)  
AB 1960 [Princeton University](#)  
MA 1964 [University of Wisconsin Madison](#)  
PHD 1969 [University of Wisconsin Madison](#)

[Search Courses for Patrick Hutton](#)

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David Perera Massell  
Professor of History  
Appointed in [1997](#)  
[History Department](#)  
BA 1982 [Oberlin College](#)  
MED 1990 [University of Massachusetts Amherst](#)  
MA 1993 [Duke University](#)  
PHD 1997 [Duke University](#)

[Search Courses for David Massell](#)

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Robert L. McCullough  
Associate Professor of History  
Appointed in [1996](#)  
[History Department](#)

JD 1976 [Hamline University](#)  
MSL 1983 [Vermont Law School](#)  
MA 1989 [Cornell University](#)  
PHD 1993 [Cornell University](#)  
[Search Courses for Robert McCullough](#)

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Abigail S. McGowan  
Associate Professor of History  
Appointed in [2004](#)  
[History Department](#)  
BA 1993 [Carleton College](#)  
MA 1999 [University of Pennsylvania](#)  
PHD 2003 [University of Pennsylvania](#)  
[Search Courses for Abigail McGowan](#)

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Joseph P. Moore  
Lecturer III of History  
Appointed in [2000](#)  
[History Department](#)  
BA 1975 [Michigan State University](#)  
MA 1988 [University of Vermont](#)  
[Search Courses for Joseph Moore](#)

---

Stephen Willner Nissenbaum  
Adjunct Professor of History  
Appointed in [2002](#)  
[History Department](#)  
AB 1961 [Harvard University](#)  
PHD 1963 [University of Wisconsin Madison](#)  
MA 1968 [Columbia University](#)  
[Search Courses for Stephen Nissenbaum](#)

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Harold S. Schultz  
Professor of History Emeritus  
[History Department](#)  
[Search Courses for Harold Schultz](#)

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Sean Arnold Stilwell  
Associate Professor of History  
Appointed in [1999](#)  
[History Department](#)  
BA 1990 [University of Saskatchewan](#)

MA 1993 [University of Saskatchewan](#)  
PHD 1999 [York University](#)  
[Search Courses for Sean Stilwell](#)

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Kevin Pierce Thornton  
Senior Lecturer of History  
Appointed in [1998](#)  
[History Department](#)  
BA 1981 [Yale University](#)  
MA 1983 [University of Virginia](#)  
PHD 1996 [University of Michigan Ann Arbor](#)  
[Search Courses for Kevin Thornton](#)

---

Thomas Durant Visser  
Associate Professor of History  
Director of Historic Preservation  
Appointed in [1985](#)  
[History Department](#)  
BS 1973 [University of New Hampshire](#)  
MS 1986 [University of Vermont](#)  
[Search Courses for Thomas Visser](#)

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Harvey Amani Whitfield  
Associate Professor of History  
Appointed in [2004](#)  
[History Department](#)  
BA 1997 [Colorado State University](#)  
MA 1999 [Dalhousie University](#)  
PHD 2003 [Dalhousie University](#)  
[Search Courses for Harvey Whitfield](#)

---

Denise J. Youngblood  
Professor of History  
Appointed in [1988](#)  
[History Department](#)  
BA 1974 [Wright State University](#)  
MA 1975 [Stanford University](#)  
PHD 1980 [Stanford University](#)  
[Search Courses for Denise Youngblood](#)

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## Holocaust Studies Program

### Contact Information

University of Vermont  
 Holocaust Studies Program  
 A301 Old Mill Annex  
 94 University Place  
 Burlington, VT 05405-0114

Phone: (802) 656-1492  
 Fax: (802) 656-1497  
 Email: [Holocaust.Studies@uvm.edu](mailto:Holocaust.Studies@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## Holocaust Studies (Undergraduate Minor)

### Specific Requirements

18 hours of relevant course work, at least 9 of which must be at the 100 level or above, and must include [HST 139](#) and [HST 190](#). No more than three hours may come from classes also used to fulfill a major.

### Prerequisites

[HST 26](#), 2 semesters of German (another European language may be substituted after consultation with the director).

### Affiliations

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Holocaust Studies Program > Courses

## Courses in Holocaust Studies

### HS 017 - German Literature: Translation

See Schedule of Courses for specific titles.

Credits: 3.

### HS 026 - Europe, 1815-1945

Europe from the fall of Napoleon to the end of World War II, focusing on political, social, economic, and intellectual developments. Cross-listed with: HST 026.

Credits: 3.

### HS 027 - Modern Eastern Europe

Eastern Europe since 1772, especially areas comprising present-day states of Bosnia-Herzegovina, Croatia, the Czech Republic, Hungary, Macedonia, Poland, Slovakia, Slovenia, and Yugoslavia. Focus on politics and culture of nationalism. Cross-listed with: HST 027.

Credits: 3.

### HS 095 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 3.

### HS 096 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 3.

### HS 115 - History of Poland

History of the Polish people and Polish state from the 10th century to the present. Strong emphasis on the 20th century. Pre/co-requisites: HST 10 or 26 or 27.

Cross-listings: HST 115.

Credits: 3.

Education

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
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**HS 117 - German Literature: Translation**

See Schedule of Courses for specific titles. Cross-listed with: WLIT 117.

Credits: 3.

**HS 139 - Modern Germany**

Political, cultural, and social history of Germany from unification in 1871 through the Wilhelmine Empire, Weimar Republic, Nazi era, and post-war period.

Prerequisites: History 10, 14, or 26, or work in German; Crosslisted with HST 139.

Credits: 3.

**HS 180 - Moral&Rel Persp on Holocaust**

A study of the Holocaust in relation to questions of moral responsibility, justice, guilt, and human suffering, focusing on Jewish responses. Cross-listed with: REL 180.

Credits: 3.

**HS 190 - The Holocaust**

Study of the background, events, and aftermath of the Holocaust in Nazi Germany and Europe under German control. Prerequisites: History 10 or 26 or 27 or instructor's permission. Crosslisted with HST 190.

Credits: 3.

**HS 191 - World War II**

Causes, conduct, and consequences of global war from 1931-1945, including social, economic, political, and diplomatic as well as military aspects.

Prerequisites: History 10 or 12 or 26 or 51. Crosslisted with HST 191.

Credits: 3.

**HS 195 - Special Topics**

Credits: 1-6.

**HS 196 - Special Topics**

Credits: 1-6.

**HS 197 - Readings and Research**

May be prescribed by an individual instructor. Junior /Senior standing.

Credits: 1-6.

**HS 198 - Readings and Research**

May be prescribed by an individual instructor. Junior/ Senior standing.

Credits: 1-6.

**HS 226 - Seminar in Modern Europe**

Selected topics on European history from 1815 to present. Prerequisites: Junior or senior standing; 12 hours of history.

Credits: 3.

**HS 227 - Seminar in Modern Europe**

Selected topics on European history from 1815 to present. Prerequisites: Junior or

senior standing; 12 hours of history.

Credits: 3.

**HS 281 - Sem:Lit Genre,Period or Theme**

Study of a literary genre, period, or theme through close readings of representative texts supplemented by lectures and reports on socio-cultural context. May be repeated. Cross-listed with: GERM 281.

Credits: 3.

**HS 282 - Sem:Lit Genre, Period or Theme**

Study of a literary genre, period, or theme through close readings of representative texts supplemented by lectures and reports on socio-cultural context. May be repeated. Cross-listed with: GERM 282.

Credits: 3.

**HS 295 - Special Topics**

Credits: 1-6.

**HS 296 - Special Topics**

Credits: 1-6.

**HS 297 - Advanced Readings & Research**

Declared minor in Holocaust Studies and permission of director.

Credits: 1-3.

**HS 298 - Advanced Readings & Research**

Declared minor in Holocaust Studies and permission of director.

Credits: 1-3.

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Japanese Language Program

## Japanese Language Program

### Contact Information

University of Vermont  
 Japanese Language Program  
 479 Main Street  
 Burlington, VT 05405

Phone: (802) 656-1117

Email: [Mutsumi.Corson@uvm.edu](mailto:Mutsumi.Corson@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools:[College of Arts and Sciences.](#)

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## Japanese (Undergraduate Minor)

### Specific Requirements

Fifteen credits of Japanese with at least eight of those credits at 100-level, including JAPN 102 or its equivalent. Three credit hours at or above 100-level in Japanese linguistics or literature may be substituted for three credits of language study beyond JAPN 102 or its equivalent.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
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Mathematics
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Medicine
- College of Nursing  
and Health  
Sciences
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## Courses in Japanese

### JAPN 001 - Elementary Japanese

An introduction to spoken and written Japanese through aural-oral drills and grammar presentation. The three writing systems of Japanese (hiragana, katakana, and kanji)

Credits: 4.

### JAPN 002 - Elementary Japanese

An introduction to spoken and written Japanese through aural-oral drills and grammar presentation. The three writing systems of Japanese (hiragana, katakana, and kanji) are introduced. Prerequisite:1 or Equivalent.

Credits: 4.

### JAPN 051 - Intermediate Japanese

A continuation of 2 designed to enable the student to converse in everyday Japanese and to read and write simple texts. Prerequisites: 2 or equivalent.

Credits: 4.

### JAPN 052 - Intermediate Japanese

A continuation of 2 designed to enable the student to converse in everyday Japanese and to read and write simple texts. Prerequisites: 51 or equivalent.

Credits: 4.

### JAPN 095 - Special Topics

See Schedule of Courses for specific titles.

Credits: 1-3.

### JAPN 096 - Introductory Special Topics

See Schedule of Courses for specific titles.

Credits: 1-3.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**JAPN 101 - Advanced Japanese**

Further development of oral proficiency and advanced study of grammatical structure of modern Japanese, supplemented by audiovisual materials and authentic written texts of several kinds. Prerequisites: 52 or equivalent.

Credits: 3.

**JAPN 102 - Advanced Japanese**

Further development of oral proficiency and advanced study of grammatical structure of modern Japanese, supplemented by audiovisual materials and authentic written texts of several kinds. Prerequisites: 101 or equivalent.

Credits: 3.

**JAPN 121 - Japanese Conversation I**

Development of speaking and listening skills related to concrete topics through total immersion in Japanese. Prerequisite: JAPN 052 or equivalent.

Credits: 1-3.

**JAPN 122 - Japanese Conversation II**

Development of functional skills to carry out daily conversation in varied social contexts. Prerequisite: JAPN 052 or equivalent.

Credits: 1-3.

**JAPN 195 - Intermediate Special Topics**

See Schedule of Courses for special titles. Prerequisite: JAPN 052 or equivalent.

Credits: 1-3.

**JAPN 196 - Intermediate Special Topics**

See Schedule of Courses for special titles. Prerequisite: JAPN 052 or equivalent.

Credits: 1-3.

**JAPN 197 - Readings and Research**

Independent study of a specific area, subject, or theme with an approved instructor.

Credits: 1-6.

**JAPN 198 - Readings and Research**

Independent study of a specific area, subject, or theme with an approved instructor.

Credits: 1-6.

**JAPN 201 - Studies of Japanese Texts**

Directed reading of authentic texts and guided practice of conversational skills in multiple social contexts. Courses can be repeated with different content. Prerequisites: 102 or equivalent.

Credits: 3.

**JAPN 202 - Studies of Japanese Texts**

Directed reading of authentic texts and guided practice of conversational skills in multiple social contexts. Courses can be repeated with different content.

Prerequisites: 102 or equivalent.

Credits: 3.

**JAPN 221 - Japanese for Communication I**

Prerequisite: JAPN 102 or equivalent.

Credits: 1-6.

**JAPN 222 - Japanese for Communication II**

view points in varied social contexts. Repeatable with different content.

Prerequisite: JAPN 102 or equivalent.

Credits: 1-6.

**JAPN 295 - Advanced Special Topics**

Contact department for details.

Credits: 1-6.

**JAPN 296 - Advanced Special Topics**

Contact department for details.

Credits: 1-6.

**JAPN 297 - Adv Readings and Research**

Advanced independent study of a specific area, subject, or theme with an approved instructor. Prerequisite: JAPN 102 or equivalent.

Credits: 1-6.

**JAPN 298 - Adv Readings and Research**

Advanced independent study of a specific area, subject, or theme with an approved instructor. Prerequisite: JAPN 102 or equivalent.

Credits: 1-6.

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## Faculty for Japanese Language Program

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## Mathematics and Statistics Department

### Contact Information

*University of Vermont  
Mathematics and Statistics Department  
16 Colchester Ave  
Burlington, VT 05405*

Phone: (802) 656-2940

Fax: (802) 656-2552

Email: [James.Burgmeier@uvm.edu](mailto:James.Burgmeier@uvm.edu)

[Web Site](#)

### Overview

Students can concentrate in mathematics or statistics while pursuing a broad foundation in the liberal arts in the Department of Mathematics and Statistics. It is possible to earn a second degree in any college combining mathematics and statistics with other disciplines. The Department also offers accelerated five-year B.S./M.S. programs.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).

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- [Mathematics: Applied and Interdisciplinary Mathematics \(B.A.\)](#)
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## Mathematics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[MATH 21](#), [MATH 22](#), [MATH 121](#), [MATH 52](#), and [MATH 124](#), plus 18 additional credits in Math./Statistics courses at 100 level or above, with at least 12 hours numbered 200 or higher.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Engineering and Mathematics](#).
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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Mathematics and Statistics Department > Academic Offerings > Mathematics (B.S.)

## Mathematics (Bachelor of Science)

### Overview

In addition to the Bachelor of Science degree described here, the Department of Mathematics and Statistics also offers a Bachelor of Arts degree in the College of Arts and Sciences. A faculty advisor from Mathematics will assist students in determining which degree program best suits their individual needs and plans. Some of the career plans for which a well-designed major in mathematics can provide ideal preparation are highlighted below.

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mathematics and Statistics Requirements for the Bachelor of Science](#)

### Specific Requirements

### Recommendations for Major Courses

In consultation with their advisor, students should choose an area of interest within the mathematics major and plan a coherent program that addresses their interests in mathematics and its applications. This area might be one of those listed below, or it might be another area suggested by the student. As a guide, students interested in one of the areas would typically take at least three courses in that area, including all of the courses marked with an asterisk (\*). In addition, students should take courses from at least two other areas. Because of its centrality in mathematics, students should make sure that they take at least one course listed under Classical Mathematics. In following these recommendations, a course listed in more than one area is meant to be counted only once.



## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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### 1. **Classical Mathematics**

Classical mathematics encompasses those areas having their roots in the great traditions of mathematical thought, such as geometry and topology, mathematical analysis, algebra and number theory, and discrete mathematics. Courses in this area include the following: [MATH 141](#), [MATH 151](#), [MATH 173](#), [MATH 236](#), [MATH 240](#), [MATH 241\\*](#), [MATH 242](#), [MATH 251\\*](#), [MATH 252](#), [MATH 255](#), [MATH 257](#), [MATH 260](#), [MATH 264](#), [MATH 273](#), [MATH 331](#), [MATH 353](#).

### 2. **Applied Mathematics**

Applied Mathematics involves the use of mathematical methods to investigate problems originating in the physical, biological, and social sciences, and engineering. Mathematical modeling, coupled with the development of mathematical and computational solution techniques, illuminates mechanisms which govern the problem and allows predictions to be made about the actual physical situation. Current research interests of the faculty include biomedical mathematics, fluid mechanics and hydrodynamic stability, asymptotics, and singular perturbation theory. Courses in this area include the following: [MATH 230\\*](#), [MATH 236](#), [MATH 237\\*](#), [MATH 238](#), [MATH 240](#), [MATH 272](#), [MATH 273](#), [MATH 274](#).

### 3. **Computational Mathematics**

Computational mathematics involves both the development of new computational techniques and the innovative modification and application of existing computational strategies to new contexts where they have not been previously employed. Intensive computation is central to the solution of many problems in areas such as applied mathematics, number theory, engineering, and the physical, biological and natural sciences. Computational mathematics is often interdisciplinary in nature, with algorithm development and implementation forming a bridge between underlying mathematical results and solution of the physical problem of interest. Courses in this area include the following: [MATH 173](#), [MATH 230](#), [MATH 237\\*](#), [MATH 238](#), [MATH 274](#), [STAT 201](#).

### 4. **Theory of Computing**

The mathematical theory of computing deals with the mathematical underpinnings allowing effective use of the computer as a tool in problem solving. Aspects of the theory of computing include: designing parallel computing strategies (graph theory), analyzing strengths and effectiveness of competing algorithms (analysis of algorithms), examining conditions which ensure that a problem can be solved by computational means (automata theory and computability), and rigorous analysis of run times (complexity theory). Courses in this area include the following: [MATH 173](#), [MATH 223](#), [MATH 224\\*](#), [MATH 243](#), [MATH 273](#), [MATH 325](#), [CS 346](#), [CS 353](#).

## 5. **Mathematics of Management**

Mathematics of Management involves the quantitative description and study of problems particularly concerned with the making of decisions in an organization. Problems are usually encountered in business, government, service industries, etc., and typically involve the allocation of resources, inventory control, product transportation, traffic control, assignment of personnel, and investment diversification. Courses in this area include the following: MATH 173, MATH 221\*, MATH 222, MATH 230, MATH 236, MATH 273, STAT 141 or STAT 211, STAT 151 or MATH 207, STAT 224, STAT 241, STAT 253.

## 6. **Actuarial Mathematics**

Actuaries use quantitative skills to address a variety of problems within business environments, and especially within the life insurance industry. Two professional organizations sponsor qualifying examinations and grant recognition to actuaries in the U.S. and Canada. A unique feature of the actuarial profession is that formal training is typically completed after graduation "on-the-job." Students planning an actuarial career can prepare for and complete some actuarial examinations prior to graduation. Several departmental courses serve as preparation for the examinations: MATH 21, MATH 22, MATH 121, and MATH 124 for the first examination; STAT 141 or STAT 211, {STAT 151 or MATH 207}\*, and {STAT 241 or 261}\* for the second examination; STAT 221 or STAT 231, STAT 225, and STAT 253 for the third examination; MATH 221, MATH 222, and STAT 252 b for the fourth examination: and MATH 237 for the fifth examination.

## 7. **Probability and Statistical Theory**

Probabilistic reasoning is often a critical component of practical mathematical analysis or risk analysis and can usefully extend classical deterministic analysis to provide stochastic models. It also provides a basis for statistical theory, which is concerned with how inference can be drawn from real data in any of the social or physical sciences. Courses in this area include the following: MATH 222, MATH 241, MATH 242, (STAT 151 or MATH 207)\*, STAT 241\*, STAT 252 a, STAT 252 b, STAT 261, STAT 262, STAT 270.

## **Recommendations for Allied Field Courses**

Students who select the Applied and Interdisciplinary Mathematics option are required to consult with their advisor in setting up their concentration in an Allied Field, as described under requirements B. Students who select the General Mathematics option should also discuss Allied Field courses with their advisor and choose ones which complement their mathematical interests. Students with certain mathematical interests are advised to emphasize an appropriate Allied Field as indicated below and take at least six hours in courses numbered 100 or above in that field.

### **Applied Mathematics:**

See [Allied Fields](#) under Mathematics and Statistics degree requirements.

### Computational Mathematics:

Allied Field (4) or (5).

### Mathematics of Management:

Allied Field (7). Students interested in Mathematics of Management are advised to include Economics [EC 11](#) and [EC 12](#) in their choice of Humanities and Social Sciences courses, and to include Business Administration [BSAD 60](#) and [BSAD 61](#) in their choice of Allied Field courses. Those wishing to minor in Business Administration should contact the School of Business Administration and also take Business Administration [BSAD 173](#) and two other courses chosen from Business Administration [BSAD 168](#), [BSAD 170](#), [BSAD 174](#), [177](#), [BSAD 178](#), and [BSAD 272](#).

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#), [College of Arts and Sciences](#).
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## Mathematics: Applied (Undergraduate Minor)

### Specific Requirements

Fifteen hours of mathematics courses numbered MATH 52 or higher, including one of [MATH 230](#), [MATH 237](#), or [MATH 271](#).

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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## Mathematics: Applied and Interdisciplinary Mathematics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

This concentration combines a major in applied mathematics with an approved minor that emphasizes the application of mathematics. Such minors include various disciplines in the physical, life, and earth sciences, the social sciences, and business. A student may expand the approved minor to form a double major with mathematics. The requirements for this option are: (a) [MATH 21](#), [MATH 22](#), [MATH 121](#), [CS 21](#), [MATH 124](#), [MATH 230](#), and [MATH 237](#); (b) at least nine additional hours in mathematics, statistics, or computer science courses number 100 or above, at least three of which must be in mathematics or statistics, at least six of which must be numbered 200 or above; (c) an approved minor. Parts (b) and (c) must form a coherent program that has the written approval of the student's faculty advisor in the Mathematics and Statistics Department.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).
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## Mathematics: Pure (Undergraduate Minor)

### Specific Requirements

Math 21 (or equivalent), [MATH 22](#), [MATH 52](#) or [MATH 121](#), and nine additional credits in Mathematics courses numbered 100 or above. Computer Science or Computer Engineering majors may substitute MATH 54 for [MATH 52](#). The course plan for a mathematics minor must be approved by a mathematics faculty advisor.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#). [College of Engineering and Mathematics](#).
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## Mathematics: Statistics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Computer Science 21. Thirty-three hours of Mathematics/Statistics courses numbered 21 or higher, including [MATH 121](#) and [MATH 124](#), and [STAT 141](#) or [STAT 143](#) or [STAT 211](#), [STAT 151](#) or [STAT 251](#), [STAT 201](#), [STAT 221](#) or [STAT 227](#), [STAT 241](#) or [STAT 261](#), and [STAT 281](#) or [STAT 293](#). At least 12 ours must be at the 200 level or higher.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Engineering and Mathematics](#).
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## Mathematics: Statistics (Bachelor of Science)

### Overview

Students receiving the B.S. in Mathematics may elect Statistics as their major. In addition, students receiving a B.A. degree in Arts and Sciences may concentrate in Statistics as a part of their Mathematics major. Statistics is a mathematical science extensively used in a wide variety of fields. Indeed, every discipline which gathers and interprets data uses statistical concepts and procedures to understand the information implicit in their data base. Statisticians become involved in efforts to solve real world problems by designing surveys and experimental plans, constructing and interpreting descriptive statistics, developing and applying statistical inference procedures, and developing and investigating stochastic models or computer simulations. To investigate new statistical procedures requires a knowledge of mathematics and computing as well as statistical theory. To apply concepts and procedures effectively also calls for an understanding of the field of application.

The curriculum is designed for students who plan to enter business, industry, or government as statisticians; to become professional actuaries; or to continue on to graduate school in statistics/biostatistics or another field where a quantitative ability can prove valuable (business, operations research, medicine, public health, demography, psychology, etc.). The courses and curricula are administered through the Statistics Program Steering Committee which includes faculty from Statistics, College of Medicine Medical Biostatistics and Bioinformatics Facility, Natural Resources, and the Agricultural Experiment Station. Students are encouraged to undertake special projects to gain experience in data analysis, design, and statistical computing. Also, experience can be gained with local industry and other organizations for those interested in quality control, industrial statistics, survey and market research or forecasting, for example.

Statistics majors may also minor in Mathematics by completing [MATH 021](#), [MATH 022](#), [MATH 052](#) or [MATH 121](#), and 9 more credits in mathematics at the 100-level or above.



- Education
- Since Statistics majors normally take [MATH 021](#), [MATH 022](#), [MATH 121](#) and [MATH 124](#), they just need two more mathematics courses at the 100-level or above.
- Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources
- Students earning the B.S. in Mathematics may earn a double major in Mathematics and Statistics by meeting the requirements of the Statistics major and earning an additional 18 credits in Mathematics, to include one of [MATH 141](#), [MATH 241](#), [MATH 151](#) or [MATH 251](#).
- Further details on the Statistics major and minor curricula may be obtained from the Director of the Statistics Program. The Handbook for Mathematics and Statistics majors, available from the Mathematics and Statistics department office, also provides a wealth of useful information.

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## General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mathematics and Statistics Requirements for the Bachelor of Science](#)

## Specific Requirements

### Premedical Concentration in Statistics

Each student electing the Premedical Concentration in Statistics will fulfill the general requirements for the Statistics major. Statistics 200 is recommended as an important elective for students interested in medicine or allied health. In addition, the premedical concentration should include as a minimum two years of chemistry with laboratory ([CHEM 031](#), [CHEM 032](#), or [CHEM 035](#), [CHEM 036](#), [CHEM 037](#), [CHEM 038](#), and [CHEM 141](#), [CHEM 142](#)), at least one year of physics with laboratory ([PHYS 021](#), [PHYS 031](#), [PHYS 022](#), [PHYS 042](#) or [PHYS 021](#), [PHYS 031](#), [PHYS 125](#)), and at least one year of biology with laboratory ([BIOL 001](#), [BIOL 002](#)). Exposure to medical research problems may be provided through supervised experiences in the College of Medicine Medical Biostatistics and Bioinformatics Facility.

### Concentration in Quality

Students interested in methods of quality control and quality improvement are encouraged to develop a concentration in quality. [STAT 224](#): Statistics in Quality and Productivity is regularly offered. Related courses to consider include Business Administration 178 and others in the Production and Operations Management and Quantitative Methods area of Business Administration. Project experience in industrial quality control or in health care quality can be gained in [STAT 191](#) and [STAT 281](#), or [STAT 293-294](#).

### Affiliations

- Colleges and Schools:[College of Engineering and Mathematics](#).[College of Arts and Sciences](#).
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## Statistics (Undergraduate Minor)

### Specific Requirements

A Statistics Minor consists of 15 credits of statistics (STAT) courses, acquiring calculus knowledge equivalent to [MATH 019](#) or [MATH 021](#), and gaining computer experience equivalent to [STAT 201](#) or a computer programming course ([CS 016](#) or higher or [MATH 052](#)). [EC 170](#): Economic Methods can also be counted in place of [STAT 111](#) or [STAT 140](#) as an introductory statistics course. Not more than seven credits of introductory Statistics [STAT 011/STAT 051/STAT 111/STAT 140/STAT 141/STAT 143/STAT 211](#) or [EC 170](#) may be counted. The course plan for the Statistics Minor must be approved by a Statistics faculty advisor. See more complete guidelines at [Statistics Minor Web site](#) .

Note that Mathematics majors can minor in Statistics as well. In Arts and Sciences you must earn 12 of your 15 credits in statistics beyond any statistics courses counted in your major courses. In Engineering and Mathematics you must earn 15 credits in statistics beyond any statistics courses.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).
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## Mathematics and Statistics Requirements for the Bachelor of Science

**Mathematics:** [MATH 021](#), [MATH 022](#), [MATH 121](#), [MATH 052](#), [MATH 124](#), [MATH 241](#), [MATH 251](#), and [CS 021](#).

**Statistics:** [MATH 021](#), [MATH 022](#), [MATH 121](#), [MATH 124](#); [CS 21](#); and one of [STAT 141](#), [STAT 143](#) or [STAT 211](#), [STAT 151](#) or [STAT 251](#), [STAT 201](#), [STAT 221](#) or [STAT 227](#), [STAT 241](#) or [STAT 261](#), and [STAT 281](#) or [STAT 293](#).

**Applied and Interdisciplinary Mathematics:** [MATH 021](#), [MATH 022](#), [MATH 121](#); [CS 21](#); [MATH 124](#), [MATH 230](#), and [MATH 237](#).

In addition to the Basic Curriculum above, candidates for the degree of Bachelor of Science in Mathematics must complete the following requirements A, B, C, and D.

### A. Major Courses

**Mathematics:** A minimum of 21 additional hours in Mathematics, Statistics, or Computer Science courses numbered 100 or above. At least 12 hours must be in courses numbered 200 or above and no more than 12 hours may be chosen from Computer Science.

**Statistics:** An additional six credit hours of Statistics, so that the total credits earned in Statistics is at least 24 hours. A minimum of two additional hours in Mathematics, Statistics, or Computer Science courses numbered 100 or above, so that a total of at least 45 credits in the basic and major courses is earned. A total of 18 credit hours in the combined basic curriculum and majors courses must be taken at the 200 level and no more than 12 hours can be taken in Computer Science.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**Applied and Interdisciplinary Mathematics:** A minimum of 18 additional hours in Mathematics, Statistics, or Computer Science courses numbered 100 or above. Of these 18 hours, 6 must be in Mathematics or Statistics, and 12 hours must be numbered 200 or above.

#### B. **Allied Field Courses**

Twenty-four hours selected from the following Allied Fields:

1. Physical Sciences
2. Biological Sciences
3. Medical Sciences
4. Engineering
5. Computer Science (26 or higher)
6. Agricultural Sciences
7. Business Administration
8. Psychology
9. Economics
10. Environmental Sciences/Studies
11. Natural Resources

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Each student in consultation with his or her advisor must plan a sequence of Allied Field courses consistent with his or her professional and personal goals. A student interested in pursuing intensive studies in an area not specifically listed is encouraged to plan a program with his or her advisor and submit it to the appropriate departmental committee for review and approval. The requirements are as follows:

**Mathematics:** Twenty-four hours selected from the above list of Allied Fields. Of these 24 hours, at least six must be in courses numbered 100 or above, and at least six must be taken in fields (1) to (5). Courses used to satisfy requirement A above may not be used to satisfy this requirement.

**Statistics:** Twenty-four hours selected from the above list of Allied Fields, including at least one laboratory experience in science or engineering. Of these 24 hours, at least six must be in courses numbered 100 or above and at least six must be taken in fields (1) to (5). Courses used to satisfy requirement A above may not be used to satisfy this requirement.

**Applied and Interdisciplinary Mathematics:** At least seven courses with a concentrated focus in an allied field. The major courses in requirement A and the Allied Field courses in requirement B must form a coherent program that has the written approval of the student's faculty advisor in the Mathematics and Statistics Department. When appropriate, and with the written approval of the advisor, at most three courses can overlap requirements A and B.

#### C. **Humanities and Social Science Courses**

(Courses used to satisfy requirement B above may not be used to satisfy this

requirement.)

ENGS 001 and 21 credits selected from categories I, II, and III listed below. These 21 credits must be distributed over at least two categories, and at least six credits must be taken in each of the two categories chosen. Statistics majors must include SPCH 011.

I. Language and Literature

- Chinese
- Classics
- English
- French
- General Literature
- German
- Greek
- Hebrew
- Italian
- Linguistics
- Russian
- Spanish
- World Literature

II. Fine Arts, Philosophy, and Religion

- Art
- Film
- Music
- Philosophy
- Religion
- Speech
- Theatre

III. Social Sciences

- ALANA U.S. Ethnic Studies
- Anthropology
- Area and International Studies
- Communication Sciences
- Economics
- Geography
- History
- Political Science
- Psychology
- Sociology
- Vermont Studies
- Women's Studies

D. **Total Hours**

A minimum of 120 semester hours is required, plus two hours in physical education activities. First-year students must include the one-hour Race and

Culture course or a course approved by the College of Arts and Sciences as meeting the "Race Relations and Ethnic Diversity in the United States" requirement.

E. **Grades**

No more than three grades of D, D+, or D- in the 200/300 level Mathematics and Statistics courses used to satisfy the "Core Curriculum" and "Major Courses" requirements will be acceptable.

[Location]

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## Courses offered by the Mathematics and Statistics Department

### Courses in Mathematics

#### MATH 001 - Elementary College Algebra

Review of fundamental operations and a more extensive study of fractions, exponents, radicals, linear and quadratic equations, ratio, proportion, variation, progressions, and the binomial theorem. Topics normally included in intermediate algebra in high school. Students who have satisfactorily completed two years of high school algebra, or the equivalent, receive no credit for this course. Offered only in Evening Division and Summer Session. Prerequisite: One year of high school algebra.

Credits: 3.

#### MATH 002 - Plane Trigonometry

Trigonometric functions, their graphs and other properties, solution of triangles, trigonometric equations and identities, and inverse trigonometric functions. May not be taken for credit concurrently with, or following receipt of, credit for any mathematics course numbered MATH 020 or above. Prerequisite: MATH 001 or MATH 009. Offered only in Evening Division and Summer Session.

Credits: 3.

#### MATH 009 - College Algebra

Sets, relations, and functions with particular attention to properties of algebraic, exponential, and logarithmic functions, their graphs and applications. May not be taken for credit concurrently with, or following receipt of, credit for any mathematics course numbered 19 or above. Prerequisites: Two years of secondary school algebra, one year of secondary school geometry.

Credits: 3.

Education

- Graduate College
- Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

**MATH 010 - Pre-Calculus Mathematics**

numbered MATH 019 or above. Prerequisite: Two years of secondary school algebra; one year of secondary school geometry.

Credits: 3.

**MATH 011 - Technical Calculus I**

Introduction to calculus of functions of one variable, emphasizing techniques and applications of differentiation and integration. Prerequisite: MATH 010 or MATH 009 and MATH 002, or strong background in secondary school algebra and trigonometry; an associates degree in engineering. Dual credit not given for MATH 011 and MATH 021.

Credits: 3.

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Policies and General Information

**MATH 012 - Technical Calculus II**

coordinates, sequences, series and vectors. Prerequisite: MATH 011 or MATH 021; associates degree in engineering.

Credits: 3.

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Faculty and Administration

**MATH 013 - Calculus via Modeling I**

Introduction to mathematical modeling and differential calculus with a graphical, problem-solving approach. Requires graphing calculator. Prerequisite: Three years high school math, or MATH 009. Credit not given for both MATH 013 and MATH 019.

Credits: 3.

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Catalogue Archives

**MATH 014 - Calculus via Modeling II**

Further modeling and an introduction to integral and multivariate calculus with a graphical, problem-solving approach. Requires graphing calculator. Credit not given for both MATH 014 and MATH 020. Prerequisite: MATH 013.

Credits: 3.

**MATH 015 - Elementary School Math**

Comprehension of operations with real numbers, measurements, and informal geometry provide background for algebra, number theory, statistics, probability, compass and ruler constructions, and problem solving. Prerequisite: 15 for 16. Open only to students in elementary education.

Credits: 3.

**MATH 016 - Fund Concepts Elem School Math**

Comprehension of operations with real numbers, measurements, and informal geometry provide background for algebra, number theory, statistics, probability, compass and ruler constructions, and problem solving. Prerequisite: 15 for 16. Open only to students in elementary education.

Credits: 3.

**MATH 017 - Applications of Finite Math**

Introduction to mathematics of finite systems with applications, such as probability, statistics, growth and symmetry, graph theory, fair division and apportionment



problems, voting systems. Prerequisite: Two years of secondary school algebra or 9 or 10.

Credits: 0-3.

### **MATH 018 - Basic Mathematics**

Data, statistics, modeling, algebra, word problems, calculus. Students who do well in the algebra section may continue with MATH 19 or MATH 21. Prerequisites: 3 years high school math. No credit for EM students.

Credits: 3.

### **MATH 019 - Fundamentals of Calculus I**

Introduction to limits and differential calculus with a wide variety of applications. Students interested in intensive use of mathematics should take 21. Credit not given for more than one of the courses 19, 21 unless followed by 22. Credit not given for both Math. 13 and 19. Prerequisite: 9, 10, or sufficiently strong background in secondary school algebra and geometry.

Credits: 3.

### **MATH 020 - Fundamentals of Calculus II**

Introduction to integral calculus with a wide variety of applications. A student who completes MATH 020 may be admitted to MATH 022; however MATH 019, MATH 021, MATH 022 is preferable to MATH 019, MATH 020, MATH 022. Credit not given for both MATH 014 and MATH 020. Prerequisite: MATH 019.\*

Credits: 3.

### **MATH 021 - Calculus I**

Introduction to calculus of functions of one variable including: limits, continuity, techniques and applications of differentiation and integration. Credit not given for more than one course in the pair 19, 21. Prerequisite: 10; or 9 and 2; or strong background in secondary school algebra and trigonometry

Credits: 4.

### **MATH 022 - Calculus II**

Techniques and applications of integration. Polar coordinates, Taylor polynomials, sequences and series, power series. Prerequisite: 21.

Credits: 4.

### **MATH 052 - Fundamentals of Mathematics**

Fundamental mathematical concepts and techniques, theory. Credit not given for both 52 and 54. emphasizing proofs and algorithms, are investigated within the context of topics such as number theory and graph Corequisite: Math 21.

Credits: 3.

### **MATH 054 - Fund of Math of Computation**

Introduction to mathematical theory and techniques underlying computer science. Co-requisite: MATH 019 or MATH 021.

Credits: 3.

### **MATH 095 - Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Prerequisite: Instructor permission.

Credits: 1-6.

**MATH 111 - Technical Calculus III**

Calculus of functions of several variables, partial derivatives, gradient, divergence, curl, multiple integrals. Prerequisite: MATH 012 or MATH 022; associates degree in engineering. Dual credit not given for MATH 111 and MATH 121.

Credits: 3.

**MATH 121 - Calculus III**

Vectors, vector-valued functions. Calculus of functions of several variables: partial derivatives, gradient, divergence, curl, multiple integrals, line integrals, Stokes' and Green's theorems. Prerequisite: MATH 022.

Credits: 4.

**MATH 124 - Linear Algebra**

Matrices, linear dependence, vector spaces, linear transformations, characteristic equations and applications. Co-requisite: MATH 121 recommended but not required. .

Credits: 3.

**MATH 141 - Real Analysis in One Variable**

Principles of analysis in one variable. Heine-Borel and Bolzano-Weierstrass theorems; rigorous development of differential and integral calculus infinite sequences and series of functions. Prerequisite: 52.

Credits: 3.

**MATH 151 - Groups and Rings**

An introduction to the basic concepts of abstract algebra emphasizing examples, including modular arithmetic, symmetric groups, cyclic groups, polynomial rings, homomorphisms, and isomorphisms. Prerequisite: 52.

Credits: 3.

**MATH 161 - Development of Mathematics**

Historical development of mathematical sciences emphasizing interrelations among them. Individual assignments correspond to background and interests of students. Prerequisite: Nine hours of college mathematics.

Credits: 3.

**MATH 162 - Geometry EI&Mid School Teacher**

An informal, investigative approach to geometry. Extensive use of discovery experiences through inductive procedures as opposed to the traditional emphasis on deductive process found in high school geometry. Credit not given for Math. majors in EM. Prerequisite: MATH 015 or a teaching certificate.

Credits: 3.

**MATH 167 - Physical Chemistry Preparation**

Review of relevant mathematical and physical concepts as applied to physical chemistry. Credit cannot be obtained for both MATH 167 and MATH 121. Not available for credit for E&M students. Prerequisite: MATH 022; CHEM 032 or CHEM 036. Cross-listed with: CHEM 167.

Credits: 1.

**MATH 173 - Basic Combinatorial Theory**

Introduction to basic combinatorial principles emphasizing problem-solving techniques. Enumeration, Generating Functions, Fibonacci Numbers, Pigeonhole Principle, Inclusion-Exclusion, and Graph Theory. Prerequisite: 52 or 54.

Credits: 3.

**MATH 179 - Teaching Secondary School Math**

Contemporary secondary school mathematics curricula, their content from an advanced standpoint, unifying mathematical concepts and their implications at various levels, and introduction of selected mathematical topics. Intended only for students with an interest in teaching secondary school mathematics. Not acceptable as part of any mathematics requirement for a degree. Prerequisite: EDEC 178; acceptance to teacher education, or Instructor permission.

Credits: 3.

**MATH 191 - Special Topics**

An approved project under guidance of a staff member and culminating in a written report. Involvement with off-campus groups permitted. Prerequisite: Junior/ Senior standing; approval of Department Chair.

Credits: 1-3.

**MATH 192 - Special Topics**

An approved project under guidance of a staff member and culminating in a written report. Involvement with off-campus groups permitted. Prerequisite: Junior/ Senior standing; approval of Department Chair.

Credits: 1-3.

**MATH 193 - College Honors**

Credits: 1-3.

**MATH 194 - College Honors**

Credits: 1-3.

**MATH 195 - Special Topics**

Credits: 1-4.

**MATH 207 - Probability Theory**

(Same as Statistics 251.)

Credits: 3.

**MATH 221 - Deterministic Models**

The linear programming problem. Simplex algorithm, dual problem, sensitivity analysis, goal programming. Dynamic programming and network problems.

Prerequisites: 124; 121 desirable.

Credits: 3.

**MATH 222 - Stochastic Models in Oper Rsch**

Development and solution of some typical stochastic models. Markov chains, queueing problems, inventory models, and dynamic programming under uncertainty. Prerequisite: MATH 207, STAT 151, or Instructor permission.

Credits: 3.

**MATH 224 - Analysis of Algorithms**

(Same as Computer Science 224.)

Credits: 3.

**MATH 230 - Ordinary Differential Equation**

Solutions of linear ordinary differential equations, the Laplace transformation, and series solutions of differential equations. Prerequisite: MATH 121. Corequisite: MATH 124 or Instructor permission. Credit not granted for more than one of the courses MATH 230 or MATH 271.

Credits: 3.

**MATH 236 - Calculus of Variations**

Necessary conditions of Euler, Legendre, Weierstrass, and Jacobi for minimizing integrals. Sufficiency proofs. Variation and eigenvalue problems. Hamilton-Jacobi equations. Prerequisite: 230. Alternate years, 1997-98.

Credits: 3.

**MATH 237 - Intro to Numerical Analysis**

Error analysis, root-finding, interpolation, least squares, quadrature, linear equations, numerical solution of ordinary differential equations. Prerequisite: MATH 121, MATH 124 or MATH 271; Knowledge of computer programming.

Credits: 3.

**MATH 238 - Numerical Diff Equations**

Numerical solution of differential equations: initial-value and boundary-value problems; finite difference and finite element methods. Prerequisite: 237, either 230 or 271 recommended.

Credits: 3.

**MATH 240 - Fourier Series&Integral Trans**

MATH 271.

Credits: 3.

**MATH 241 - Anyl in Several Real Vars I**

Properties of the real numbers, metric spaces, infinite sequences and series, continuity. Prerequisites: 52, 121, 124 or instructor's permission.

Credits: 3.

**MATH 242 - Anyl Several Real Variables II**

Differentiation in  $R_n$ , Riemann-Stieltjes integral, uniform convergence of functions,

Inverse and Implicit Function Theorems. Prerequisite: 241.

Credits: 3.

**MATH 243 - Theory of Computation**

(Same as Computer Science 243.)

Credits: 3.

**MATH 251 - Abstract Algebra I**

Basic theory of groups, rings, fields, homomorphisms, and isomorphisms.

Prerequisite: MATH 052, MATH 124, or Instructor permission.

Credits: 3.

**MATH 252 - Abstract Algebra II**

of quintic equations. Prerequisite: MATH 251. Modules, vector spaces, linear transformations, rational and Jordan canonical forms. Finite fields, field extensions, and Galois theory leading to the insolvability

Credits: 3.

**MATH 255 - Elementary Number Theory**

Divisibility, prime numbers, Diophantine equations, congruence of numbers, and methods of solving congruences. Prerequisite: MATH 052 or MATH 054.

Credits: 3.

**MATH 257 - Topics in Group Theory**

Topics may include abstract group theory, representation theory, classical groups, Lie groups. Prerequisite: 251. Alternate years, 2000-01.

Credits: 3.

**MATH 260 - Foundations of Geometry**

Geometry as an axiomatic science; various non-Euclidean geometries; relationships existing between Euclidean plane geometry and other geometries; invariant properties. Prerequisite: MATH 052 or MATH 054.

Credits: 3.

**MATH 264 - Vector Analysis**

Gradient, curl and divergence, Green, Gauss, and Stokes Theorems, applications to physics, tensor analysis. Prerequisite: MATH 121, MATH 124, or MATH 271.

Credits: 3.

**MATH 266 - Chaos, Fractals & Dynamical Syst**

Discrete and continuous dynamical systems, Julia sets, the Mandelbrot set, period doubling, renormalization, Henon map, phase plane analysis and Lorenz equations. Corequisite: 271 or 230 or instructor's permission.

Credits: 3.

**MATH 268 - Mathematical Biology & Ecology**

Mathematical modeling in the life sciences. Topics include population modeling, dynamics of infectious diseases, reaction kinetics, wave phenomena in biology, and biological pattern formation. Prerequisites: 124, 230; or instructor's

permission.

Credits: 3.

**MATH 271 - Appl Math for Engr&Scientists**

Matrix theory, linear ordinary differential equations. Emphasis on methods of solution, including numerical methods. Co-requisite: 121. No credit for mathematics majors. Credit not granted for more than one of the courses Math. 230 and Math. 271.

Credits: 3.

**MATH 272 - Applied Analysis**

Partial Differential Equations of Mathematical Physics, Calculus of Variations, Functions of a Complex Variable, Cauchy's Theorem, integral formula. Conformal mapping. Prerequisite: 230 or 271.

Credits: 3.

**MATH 273 - Combinatorial Graph Theory**

Paths and trees, connectivity, Eulerian and Hamiltonian cycles, matchings, edge and vertex colorings, planar graphs, Euler's formula and the Four Color Theorem, networks. Prerequisite: MATH 052 or MATH 054, or Instructor permission.

Credits: 3.

**MATH 274 - Numerical Linear Algebra**

Direct and iterative methods for solving linear equations, least square factorization methods, eigenvalue computations, ill-conditioning and stability. Prerequisite: MATH 237.

Credits: 3.

**MATH 275 - Advanced Engineer Analysis I**

(Same as Mechanical Engineering 304, 305; Civil Engineering 304, 305.)

Prerequisites: 271 or 230; 275 for 276.

Credits: 3.

**MATH 276 - Adv Engineering Analysis II**

(Same as Mechanical Engineering 304, 305; Civil Engineering 304, 305.)

Prerequisites: 271 or 230; 275 for 276.

Credits: 3.

**MATH 278 - Intro Wavelets & Filter Banks**

Continuous and discrete-time signal processing. Continuous wavelet transform. Series expansion of continuous and discrete-time signals. Perfect reconstruction, orthogonal and biorthogonal filter banks. Wavelets from filter. Pre/co-requisites: 171, or instructor permission. Cross-listing: EE 274.

Credits: 3.

**MATH 283 - Junior-Senior Seminar**

Students required to give presentations on selected topics. Prerequisite: Instructor permission.

Credits: 1.

### **MATH 293 - Undergraduate Honors Thesis**

Program of reading and research culminating in written thesis and oral presentation. Honors notation appears on transcript and Commencement Program. Contact department chairperson for procedures. (Not offered for graduate credit.)

Credits: 3-4.

### **MATH 294 - Undergraduate Honors Thesis**

Program of reading and research culminating in written thesis and oral presentation. Honors notation appears on transcript and Commencement Program. Contact department chairperson for procedures. (Not offered for graduate credit.)

Credits: 3-4.

### **MATH 295 - Special Topics**

For advanced students in the indicated fields. Lectures, reports, and directed readings on advanced topics. Prerequisite: Instructor permission. Credit as arranged. Offered as occasion warrants.

Credits: 1-9.

### **MATH 330 - Adv Ordinary Diff Equations**

Linear and nonlinear systems, approximate solutions, existence, uniqueness, dependence on initial conditions, stability, asymptotic behavior, singularities, self-adjoint problems. Prerequisite: MATH 230.

Credits: 3.

### **MATH 331 - Theory of Func of Complex Var**

Differentiation, integration, Cauchy-Riemann equations, infinite series, properties of analytic continuation, Laurent series, calculus of residues, contour integration, meromorphic functions, conformal mappings, Riemann surfaces. Prerequisite: MATH 242.

Credits: 4.

### **MATH 332 - Approximation Theory**

Interpolation and approximation by interpolation, uniform approximation in normed linear spaces, spline functions, orthogonal polynomials. Least square, and Chebychev approximations, rational functions. Prerequisite: MATH 124, MATH 237.

Credits: 3.

### **MATH 333 - Thry Functions Real Variables**

The theory of Lebesgue integration, Lebesgue measure, sequences of functions, absolute continuity, properties of LP-spaces. Prerequisite: MATH 242.

Credits: 4.

### **MATH 335 - Advanced Real Analysis**

L<sup>2</sup>-spaces, LP-spaces; Hilbert, Banach spaces; linear functionals, linear operators; completely continuous operators (including symmetric); Fredholm

alternative; Hilbert-Schmidt theory; unitary operators; Bochner's Theorem; Fourier-Plancherel, Watson transforms. Prerequisites: MATH 333.

Credits: 3.

**MATH 336 - Advanced Real Analysis**

L<sup>2</sup>-spaces, L<sup>p</sup>-spaces; Hilbert, Banach spaces; linear functionals, linear operators; completely continuous operators (including symmetric); Fredholm alternative; Hilbert-Schmidt theory; unitary operators; Bochner's Theorem; Fourier-Plancherel, Watson transforms. Prerequisite: MATH 333 and MATH 335.

Credits: 3.

**MATH 339 - Partial Differential Equations**

Classification of equations, linear equations, first order equations, second order elliptic, parabolic, and hyperbolic equations, uniqueness and existence of solutions. Prerequisite: MATH 230; MATH 242.

Credits: 3.

**MATH 351 - Topics in Algebra**

Topics will vary each semester and may include algebraic number theory, algebraic geometry, and the arithmetic of elliptic curves. Repeatable for credit with Instructor permission. Prerequisite: MATH 252.

Credits: 3.

**MATH 353 - Point-Set Topology**

MATH 241. Topological spaces, closed and open sets, closure operators, separation axioms, continuity, connectedness, compactness, metrization, uniform spaces. Prerequisite:

Credits: 3.

**MATH 354 - Algebraic Topology**

Homotopy, Seifert-van Kampen Theorem; simplicial, singular, and Cech homology. Prerequisite: MATH 353.

Credits: 3.

**MATH 373 - Topics in Combinatorics**

Topics will vary each semester and may include combinatorial designs, coding theory, topological graph theory, cryptography. Prerequisite: MATH 251 or MATH 273; or Instructor permission.

Credits: 3.

**MATH 382 - Seminar**

Topical discussions with assigned reading. Required of M.S. degree candidates.

Credits: 1.

**MATH 391 - Master's Thesis Research**

Credits: 1-18.

**MATH 395 - Special Topics**

Subject will vary from year to year. May be repeated for credit.



Credits: 1-6.

### **MATH 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## **Courses in Statistics**

### **STAT 011 - Intro to Stats via Microcomp**

Various study designs considered. Graphical and analytic techniques for presenting results. Wide variety of applications surveyed. PC-based software used. Experience gained in sample survey work. Prerequisite: High school algebra.

Credits: 3.

### **STAT 051 - Probability With Statistics**

Introduction to probabilistic and statistical reasoning, including probability distribution models and applications to current scientific/social issues. Roles of probability, study design, and exploratory/confirmatory data analysis. Prerequisite: Two years H.S. algebra. No credit for Sophomores, Juniors, or Seniors in the mathematical and engineering sciences.

Credits: 3.

### **STAT 095 - Special Topics**

Lectures, reports, and directed readings at an introductory level. Prerequisite: As listed in course schedule.

Credits: 1-3.

### **STAT 111 - Elements of Statistics**

Basic statistical concepts, methods, and applications, including correlation, regression, confidence intervals, and hypothesis tests. Prerequisite: Two years of high school algebra; Sophomore standing.

Credits: 3.

### **STAT 140 - Natural Resource Biostatistics**

Cross-listed with: NR 140.

Credits: 4.

### **STAT 141 - Basic Statistical Methods**

Foundational course for students taking further quantitative courses. Exploratory data analysis, probability distributions, estimation, hypothesis testing. Introductory regression, experimentation, contingency tables, and nonparametrics. Computer software used. Prerequisites: Math. 11, 13, 19 or 21, sophomore standing.

Credits: 3.

### **STAT 143 - Statistics for Engineering**

Data analysis, probability models, parameter estimation, hypothesis testing. Multi-factor experimental design and regression analysis. Quality control, SPC, reliability. Engineering cases and project. Statistical analysis software.

Prerequisites: Math. 12, 14, 20 or 22, sophomore standing.

Credits: 3.

**STAT 151 - Applied Probability**

continuous models. Pseudo-random number generation. Foundations of probability, conditioning, and independence. Business, computing, biological, engineering reliability, and quality control applications. Classical discrete and

Prerequisites: Math. 12, 14, 20 or 22.

Credits: 3.

**STAT 153 - Prob & Stat for Cmptr Sci**

Foundations of probability, conditioning, independence, expectation and variance. Discrete and continuous probability distributions. Computer simulation examples. Introductory descriptive and inferential statistics. Simple regression analysis.

Pre/co-requisite: MATH 020 or MATH 022.

Credits: 3.

**STAT 191 - Special Projects**

Student-designed special project under supervision of a staff member culminating in a report. Prerequisite: Junior standing; permission of Program Director.

Credits: 1-4.

**STAT 195 - Special Topics**

Lectures, reports, and directed readings. Prerequisite: As listed in course schedule.

Credits: 1-3.

**STAT 200 - Med Biostatistics&Epidemiology**

(Same as Biostatistics 200.) Introductory design and analysis of medical studies. Epidemiological concepts, case-control and cohort studies. Clinical trials. Students evaluate statistical aspects of published health science studies. Prerequisite: 141 or 143; or 211.

Credits: 3.

**STAT 201 - Stat Analysis Via Computers**

(Same as Biostatistics 201.) Intensive coverage of computer-based data processing and analysis using statistical packages, subroutine libraries, and user-supplied programs. Students analyze real data and prepare a comprehensive report. Prerequisites: 111 with instructor's permission, or 141, or corequisite 211.

Credits: 3.

**STAT 211 - Statistical Methods I**

(Same as Biostatistics 211.) Fundamental concepts for data analysis and experimental design. Descriptive and inferential statistics, including classical and nonparametric methods, regression, correlation, and analysis of variance.

Statistical software. Prerequisite: Junior standing.

Credits: 3.

**STAT 221 - Statistical Methods II**

(Same as Biostatistics 221.) Multiple regression and correlation. Basic experimental design. Analysis of variance (fixed, random, and mixed models). Analysis of covariance. Computer software usage. Prerequisites: 141 or 143; or 211.

Credits: 3.

**STAT 223 - Applied Multivariate Analysis**

(Same as Biostatistics 223.) Multivariate normal distribution. Inference for mean vectors and covariance matrices. Multivariate analysis of variance (MANOVA), discrimination and classification, principal components, factor analysis.

Prerequisites: Any 200-level Statistics course, 221 or 225 recommended, matrix algebra recommended.

Credits: 3.

**STAT 224 - Stats for Quality&Productivity**

(Same as Biostatistics 224.) Statistical process control; Shewhart, cusum and other control charts; process capability studies. Total Quality Management. Acceptance, continuous, sequential sampling. Process design and improvement. Case studies. Prerequisites: 141 or 143; or 211.

Credits: 3.

**STAT 225 - Applied Regression Analysis**

(Same as Biostatistics 225.) Simple linear and multiple regression models; least squares estimates, correlation, prediction, forecasting. Problems of multicollinearity and influential data (outliers).

Credits: 3.

**STAT 227 - Adv Statistical Methods II**

(Same as Psychology 341.) Prerequisite: 211 with computer experience or Psychology 340.

Credits: 3.

**STAT 229 - Survival Analysis**

(Same as Biostatistics 229.) Probabilistic models and inference for time-to-event data. Censored data, life tables, Kaplan-Meier estimation, logrank tests, proportional hazards regression. Specialized applications (e.g. clinical trials, reliability). Prerequisites: Any 200-level Statistics course, one year of calculus.

Credits: 3.

**STAT 231 - Experimental Design**

(Same as Biostatistics 231.) Randomization, complete and incomplete blocks, cross-overs, Latin squares, covariance analysis, factorial experiments, confounding, fractional factorials, nesting, split plots, repeated measures, mixed models, response surface optimization. Prerequisites: 211; 221 recommended.

Credits: 3.

**STAT 233 - Survey Sampling**

(Same as Biostatistics 233.) Design and data analysis for sample surveys. Simple

random, stratified, systematic, cluster, multistage sampling. Practical issues in planning and conducting surveys. Prerequisites: 211; or 141 or 143 with instructor's permission.

Credits: 3.

**STAT 235 - Categorical Data Analysis**

(Same as Biostatistics 235.) Measures of association and inference for categorical and ordinal data in multiway contingency tables. Log linear and logistic regression models. Prerequisite: 211.

Credits: 3.

**STAT 237 - Nonparametric Statistical Mthd**

(Same as Biostatistics 237.) Nonparametric and distribution free methods; categorical, ordinal, and quantitative data; confidence intervals; rank and chi-square hypothesis tests; computer-intensive procedures (bootstrap, exact tests). Prerequisites: 211; or 141 or 143 with instructor's permission.

Credits: 3.

**STAT 241 - Statistical Inference**

(Same as Biostatistics 241.) Introduction to statistical theory: related probability fundamentals, derivation of statistical principles, and methodology for parameter estimation and hypothesis testing. Prerequisites: 151 or

Credits: 3.

**STAT 251 - Probability Theory**

(Same as Math. 207.) Distributions of random variables and functions of random variables. Expectations, stochastic independence, sampling and limiting distributions (central limit theorems). Concepts of random number generation. Prerequisite: Math 121; Stat 151 or 153 recommended.

Credits: 3.

**STAT 252 - Appl Discr Stochas Proc Models**

Markov chain models for biological, social, and behavioral systems models. Random walks, transition and steady-state probabilities, passage and recurrence times. Prerequisite: STAT 151, STAT 153, or STAT 251.

Credits: 1.

**STAT 253 - Appl Time Series & Forecasting**

(Same as Biostatistics 253.) Autoregressive moving average (Box-Jenkins) models, autocorrelation, partial correlation, differencing for nonstationarity, computer modeling. Forecasting, seasonal or cyclic variation, transfer function and intervention analysis, spectral analysis. Prerequisite: 211 or 225; or 141 or 143 with instructor's permission.

Credits: 3.

**STAT 254 - Appl Cont Stoch Process Models**

distributions. Monte Carlo simulation. Pre/co-requisite: Queueing models for operations research and computer science systems analysis. Birth-and-death

processes with applications. Exponential, Erlang and Poisson STAT 151, STAT 153, or STAT 251.

Credits: 1.

**STAT 256 - Neural Computation**

(See Computer Science 256.)

Credits: 3.

**STAT 261 - Statistical Theory I**

(Same as Biostatistics 261, 262.) Point and interval estimation, hypothesis testing, and decision theory. Application of general statistical principles to areas such as nonparametric tests, sequential analysis, and linear models. Prerequisites: STAT 251 or either STAT 151 or STAT 153 with instructor permission.

Credits: 3.

**STAT 262 - Statistical Theory II**

(Same as Biostatistics 261, 262.) Point and interval estimation, hypothesis testing, and decision theory. Application of general statistical principles to areas such as nonparametric tests, sequential analysis, and linear models. Prerequisites: For 261: 151 with instructor permission or 251; for 262: 241 with instructor permission or 261.

Credits: 3.

**STAT 265 - Integrated Product Development**

(Same as Business Administration 293.)

Credits: 3.

**STAT 270 - Stochastic Thry in Elec Eng**

(See Electrical Engineering 270.)

Credits: 3.

**STAT 271 - Least Squares Est & Filtering**

(See Electrical Engineering 271.)

Credits: 3.

**STAT 281 - Statistics Practicum**

Intensive experience in carrying out a complete statistical analysis for a research project in substantive area with close consultation with a project investigator.

Prerequisites: Any one of 200, 201, 221 through 237; or 253; some statistical software experience. No credit for graduate students in Statistics or Biostatistics.

Credits: 1-4.

**STAT 293 - Undergrad Honors Thesis**

A program of reading, research, design, and analysis culminating in a written thesis and oral defense. Honors notation appears on transcript and Commencement Program. Contact Statistics Program Director for procedures.

Credits: 1-8.

**STAT 294 - Undergrad Honors Thesis**

A program of reading, research, design, and analysis culminating in a written thesis and oral defense. Honors notation appears on transcript and Commencement Program. Contact Statistics Program Director for procedures.  
Credits: 1-8.

**STAT 295 - Special Topics**

For advanced students. Lectures, reports, and directed readings on advanced topics. Prerequisite: As listed in course schedule.  
Credits: 1-4.

**STAT 308 - Applied Biostatistics**

Intensive introduction to the rationale for and application of biostatistical methods in planning experiments and interpreting data in the biological, health and life sciences. Cross-listings: Molecular Physiology and Biophysics 308, Biostatistics 308.  
Credits: 5.

**STAT 313 - Stat Analysis for Management**

See BSAD 313.  
Credits: 3.

**STAT 321 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Corequisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.  
Credits: 1.

**STAT 323 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.  
Credits: 1.

**STAT 324 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.  
Credits: 1.

**STAT 325 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT

225, and STAT 229, respectively. Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.

**STAT 329 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisite: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.

**STAT 369 - Applied Geostatistics**

225; CS 16/CE11 or permission. Cross-listings: CE 369. See description for CE 369. Pre/co-requisites: Stat 223 or

Credits: 3.

**STAT 380 - Sem:Statistics & Biostatistics**

and guest speakers. Prerequisite: Instructor Permission. Presentation and discussion of current topics, methodological research and applications in Statistics and Biostatistics by graduate students, faculty

Credits: .5-1.

**STAT 381 - Statistical Research**

Methodologic or data analytic research culminating in oral and written reports to the faculty. Prerequisite: Instructor Permission. Cross-listed with: BIOS 381.

Credits: 1-3.

**STAT 385 - Consulting Practicum**

Supervised field work in statistical consulting. Experiences may include advising UVM faculty and students or clients in applied settings such as industry and government agencies. Prerequisites: Second year Graduate standing in Statistics or Biostatistics and permission of Statistics Program Director.

Credits: 1-3.

**STAT 391 - Master's Thesis Research**

Credits: 1-6.

**STAT 395 - Advanced Special Topics**

with: BIOS 395.

Credits: 1-3.

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## Faculty for Mathematics and Statistics Department

Neil W. Aguiar

Lecturer I of Mathematics and Statistics

Appointed in [2001](#)

[Mathematics and Statistics Department](#)

BS 1988 [University of Vermont](#)

MS 1990 [University of Vermont](#)

[Search Courses for Neil Aguiar](#)

Dan Steven Archdeacon

Professor of Mathematics and Statistics

Appointed in [1982](#)

[Mathematics and Statistics Department](#)

BA 1975 [Earlham College](#)

MS 1976 [Ohio State University](#)

PHD 1980 [Ohio State University](#)

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Takamaru Ashikaga

Director of Medical Biostatistics

Professor of Mathematics and Statistics

Appointed in [1973](#)

[Mathematics and Statistics Department](#)

[Medical Biostatistics Department](#)

BA 1966 [University of California Los Angeles](#)

MS 1970 [University of California Los Angeles](#)

PHD 1973 [University of California Los Angeles](#)



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Daniel E. Bentil  
Associate Professor of Mathematics and Statistics  
Associate Professor of Molecular Physiology and Biophysics  
Appointed in [1995](#)  
[Mathematics and Statistics Department](#)  
[Molecular Physiology and Biophysics Department](#)  
MS 1982 [Friendship University](#)  
DPHIL 1990 [University of Oxford](#)  
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Joanne C. Brown  
Lecturer of Mathematics and Statistics Emerita  
[Mathematics and Statistics Department](#)  
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Janice Yanushka Bunn  
Research Associate Professor of Mathematics and Statistics  
Appointed in [2000](#)  
[Mathematics and Statistics Department](#)  
[Rehabilitation and Movement Science Department](#)  
BS 1977 [Pennsylvania State University](#)  
MS 1979 [University of Wisconsin Madison](#)  
PHD 1992 [Ohio State University](#)  
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James William Burgmeier  
Chairperson of Mathematics and Statistics  
Professor of Mathematics and Statistics  
Appointed in [1969](#)  
[Mathematics and Statistics Department](#)  
BA 1965 [University of St Thomas](#)  
MS 1967 [University of Colorado Boulder](#)  
PHD 1969 [University of New Mexico](#)  
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Jeff Sandor Buzas  
Associate Professor of Mathematics and Statistics  
Director of the Statistics Program  
Appointed in [1993](#)  
[Mathematics and Statistics Department](#)  
BS 1985 [University of Maryland College Park](#)

MS 1987 [University of North Carolina Chapel Hill](#)  
PHD 1993 [North Carolina State University Raleigh](#)  
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Peter W. Callas  
Research Associate Professor of Mathematics and Statistics  
Appointed in [1994](#)  
[Center for Clinical and Translational Science](#)  
[Mathematics and Statistics Department](#)  
BA 1980 [California State University Fullerton](#)  
MS 1984 [University of California Berkeley](#)  
PHD 1994 [University of Massachusetts Amherst](#)  
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Abigail Miles Crocker  
Lecturer of Mathematics and Statistics  
Appointed in [2000](#)  
[Mathematics and Statistics Department](#)  
BA 1998 [McGill University](#)  
MS 2004 [University of Vermont](#)  
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Christopher M. Danforth  
Associate Professor of Mathematics and Statistics  
Appointed in [2006](#)  
[Mathematics and Statistics Department](#)  
BS 2001 [Bates College](#)  
MS 2004 [University of Maryland College Park](#)  
PHD 2006 [University of Maryland College Park](#)  
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Douglas G. Dickey  
Lecturer of Mathematics and Statistics  
Appointed in [1997](#)  
[Mathematics and Statistics Department](#)  
BA 1982 [University of Virginia](#)  
MED 1998 [Saint Michaels College](#)  
MS 1999 [University of Vermont](#)  
MS 2007 [University of Vermont](#)  
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Jeffrey Howard Dinitz

Professor of Computer Science  
Professor of Mathematics and Statistics  
Appointed in [1980](#)  
[Computer Science Department](#)  
[Mathematics and Statistics Department](#)  
BS 1974 [Carnegie Mellon University](#)  
MS 1976 [Ohio State University](#)  
PHD 1980 [Ohio State University](#)  
[Search Courses for Jeffrey Dinitz](#)

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David Steven Dummit  
Professor of Mathematics and Statistics  
Appointed in [1984](#)  
[Mathematics and Statistics Department](#)  
BS 1975 [California Institute of Technology](#)  
MS 1975 [California Institute of Technology](#)  
MA 1976 [Princeton University](#)  
PHD 1980 [Princeton University](#)  
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---

Joanna A. Ellis-Monaghan  
Visiting Associate Professor of Mathematics and Statistics  
Appointed in [2000](#)  
[Mathematics and Statistics Department](#)  
BA 1984 [Bennington College](#)  
MS 1986 [University of Vermont](#)  
PHD 1995 [University of North Carolina Chapel Hill](#)  
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Richard Martin Foote  
Professor of Mathematics and Statistics  
Appointed in [1981](#)  
[Mathematics and Statistics Department](#)  
BSC 1972 [University of Toronto](#)  
PHD 1976 [University of Cambridge](#)  
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Krisan I. Geary  
Lecturer of Mathematics and Statistics  
Appointed in [2001](#)  
[Mathematics and Statistics Department](#)  
BA 1997 [University of Vermont](#)

MS 2001 [University of Vermont](#)  
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Hy M. Ginsberg  
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Appointed in [2005](#)  
[Mathematics and Statistics Department](#)  
BS 1986 [SUNY Stony Brook](#)  
MS 2007 [University of Vermont](#)  
PHD 2010 [University of Vermont](#)  
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Kenneth Ivan Golden  
Professor of Engineering  
Professor of Mathematics and Statistics  
Professor of Physics  
Appointed in [1986](#)  
[Mathematics and Statistics Department](#)  
[Physics Department](#)  
[School of Engineering](#)  
BS 1955 [Northwestern University](#)  
SM 1956 [Massachusetts Institute of Technology](#)  
ME 1957 [Massachusetts Institute of Technology](#)  
PHD 1964 [University De Paris](#)  
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Kenneth Irwin Gross  
Professor of Mathematics and Statistics  
Appointed in [1987](#)  
[Mathematics and Statistics Department](#)  
AB 1960 [Brandeis University](#)  
MA 1962 [Brandeis University](#)  
PHD 1966 [Washington University in St Louis](#)  
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Joseph A. Izzo  
Professor of Mathematics Emeritus  
[Mathematics and Statistics Department](#)  
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Jan Erik Johansson  
Lecturer of Mathematics and Statistics Emeritus  
Appointed in [1976](#)

[Mathematics and Statistics Department](#)

BA 1965 [University of Maine](#)

MA 1967 [University of Maine](#)

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Anthony Julianelle

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Appointed in [1996](#)

[Mathematics and Statistics Department](#)

BA 1975 [University of Chicago](#)

MS 1982 [Virginia Polytechnic Institute and State University](#)

PHD 1990 [University of Massachusetts Amherst](#)

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Zsuzsanna Margit Kadas

Adjunct Professor of Mathematics and Statistics

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[Mathematics and Statistics Department](#)

BS 1974 [Saint John's University](#)

MS 1976 [Rutgers University New Brunswick/Piscataway](#)

PHD 1982 [Rutgers University New Brunswick/Piscataway](#)

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Karla Ann Karstens

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Appointed in [1987](#)

[Mathematics and Statistics Department](#)

BA 1977 [College of Saint Benedict](#)

MS 1987 [University of Vermont](#)

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Vincent E. Koehler

Senior Lecturer of Mathematics and Statistics

Appointed in [2003](#)

[Mathematics and Statistics Department](#)

MS 1969 [University of Notre Dame](#)

MS 1984 [Johns Hopkins University](#)

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Larry Lyle Kost

Senior Lecturer of Mathematics and Statistics

Appointed in [1973](#)

Mathematics and Statistics Department

BS 1965 University of St Thomas

MS 1968 University of Arizona

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John Charles Lawlor

Senior Lecturer of Mathematics and Statistics

Appointed in 1974

Mathematics and Statistics Department

AB 1969 Bowdoin College

MS 1974 University of New Hampshire

Search Courses for John Lawlor

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Alan Chi Ling

Assistant Professor of Mathematics and Statistics

Associate Professor of Computer Science

Appointed in 1999

Computer Science Department

Mathematics and Statistics Department

BA 1994 University of Waterloo

MA 1995 University of Waterloo

PHD 1997 University of Waterloo

Search Courses for Alan Ling

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Elizabeth Sloan Low

Lecturer of Mathematics and Statistics Emeritus

Appointed in 1984

Mathematics and Statistics Department

AB 1963 The College of Wooster

PHD 1968 University of Chicago

MS 1983 University of Vermont

Search Courses for Elizabeth Low

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Ruth Mary Mickey

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Mathematics and Statistics Department

BS 1976 University of California Davis

MSPH 1978 University of California Los Angeles

PHD 1983 University of California Los Angeles

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David Charles Morency

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Appointed in 2001

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BS 1961 United States Naval Academy

MA 1971 University of Cincinnati

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Kurt Edmund Oughstun

Professor of Computer Science

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Professor of Mathematics and Statistics

Appointed in 1987

Computer Science Department

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School of Engineering

BA 1972 Central Connecticut State University

MS 1974 University of Rochester

PHD 1978 University of Rochester

Search Courses for Kurt Oughstun

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George Francis Pinder

Professor of Computer Science

Professor of Engineering

Professor of Mathematics and Statistics

Appointed in 1989

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BSC 1965 University of Western Ontario

PHD 1968 University of Illinois Urbana-Champaign

Search Courses for George Pinder

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Helen P. Read

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Mathematics and Statistics Department

BA 1984 University of Vermont

MS 1988 University of Vermont

Search Courses for Helen Read

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Thomas E. Rogers

Senior Lecturer of Mathematics and Statistics

Appointed in 2002

Mathematics and Statistics Department  
BS 1988 United States Naval Academy  
MS 1995 United States Naval Academy  
Search Courses for Thomas Rogers

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Joan Marie Rosebush  
Director of Student Success in the College of Engineering and Mathematical Sciences  
Senior Lecturer of Mathematics and Statistics  
Appointed in 1990  
Mathematics and Statistics Department  
BA 1978 SUNY Cortland  
MED 1981 Saint Michael's College  
CERT 1997 Saint Michael's College  
Search Courses for Joan Rosebush

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Jonathan Winslow Sands  
Professor of Mathematics and Statistics  
Appointed in 1986  
Mathematics and Statistics Department  
BA 1977 Harvard University  
MA 1979 University of California San Diego  
PHD 1982 University of California San Diego  
Search Courses for Jonathan Sands

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Richard M. Single  
Associate Professor of Mathematics and Statistics  
Appointed in 2001  
Mathematics and Statistics Department  
BS 1990 SUNY Albany  
MS 1992 SUNY Stony Brook  
PHD 1995 SUNY Stony Brook  
Search Courses for Richard Single

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Robert Raymond Snapp  
Associate Professor of Computer Science  
Associate Professor of Mathematics and Statistics  
Appointed in 1990  
Computer Science Department  
Mathematics and Statistics Department  
AB 1978 University of California San Diego  
PHD 1987 University of Texas Austin  
Search Courses for Robert Snapp

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Mun Shig Son  
Professor of Mathematics and Statistics  
Appointed in [1984](#)  
[Mathematics and Statistics Department](#)  
BA 1975 [Sung Kyun Kwan University](#)  
MS 1982 [Oklahoma State University](#)  
PHD 1984 [Oklahoma State University](#)  
MS 1984 [Oklahoma State University](#)  
[Search Courses for Mun Son](#)

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Branimir Francis Von Turkovich  
Professor of Mathematics and Statistics Emeritus  
Professor of Mechanical Engineering Emeritus  
Appointed in [1971](#)  
[Mathematics and Statistics Department](#)  
[School of Engineering](#)  
BS 1947 [University of Naples](#)  
MS 1951 [University of Madrid](#)  
PHD 1962 [University of Illinois Urbana-Champaign](#)  
[Search Courses for Branimir Von Turkovich](#)

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Sheila O'Leary Weaver  
Senior Lecturer of Mathematics and Statistics  
Appointed in [1985](#)  
[Mathematics and Statistics Department](#)  
BS 1982 [University of Illinois Urbana-Champaign](#)  
MS 1984 [University of Illinois Urbana-Champaign](#)  
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James Michael Wilson  
Professor of Mathematics and Statistics  
Appointed in [1986](#)  
[Mathematics and Statistics Department](#)  
BS 1977 [California Institute of Technology](#)  
MA 1979 [University of California Los Angeles](#)  
PHD 1981 [University of California Los Angeles](#)  
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Robert Kingman Wright  
Professor of Mathematics Emeritus  
Appointed in [1966](#)  
[Mathematics and Statistics Department](#)  
AB 1963 [Middlebury College](#)

MA 1964 [Columbia University](#)

PHD 1966 [Columbia University](#)

[Search Courses for Robert Wright](#)

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Jianke Yang

Professor of Mathematics and Statistics

Appointed in [1994](#)

[Mathematics and Statistics Department](#)

BS 1989 [Tsinghua University](#)

PHD 1994 [Massachusetts Institute of Technology](#)

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Jun Yu

Associate Chairperson of Mathematics and Statistics

Associate Director of Mathematics and Statistics

Professor of Computer Science

Professor of Mathematics and Statistics

Appointed in [1990](#)

[Computer Science Department](#)

[Mathematics and Statistics Department](#)

BS 1982 [Nanjing Institute of Meteorology](#)

PHD 1988 [University of Washington Seattle](#)

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## Music Department

### Contact Information

University of Vermont  
 Music Department  
 Southwick Hall  
 392 South Prospect St  
 Burlington, VT 05405-0144

Phone: (802) 656-3040  
 Fax: (802) 656-0759  
 Email: [music@zoo.uvm.edu](mailto:music@zoo.uvm.edu)

[Web Site](#)

### Overview

Students may apply to either the Bachelor of Arts or Bachelor of Music programs. Arrangements for auditions should be made with the Music Department. Those admitted as first-year students or sophomores to either degree program are considered Candidates in the program. Admission as Majors is made at the beginning of the junior year following formal review procedures during the second semester of the sophomore year.

All students in programs which require a senior recital, including students transferring into these programs, must pass a junior standing examination at the end of the sophomore year, or before junior standing can be achieved in the case of transfer students. All students approaching a senior recital must pass a faculty audition covering all of the music to be included on the recital six weeks prior to the date of the recital.

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## Music (Bachelor of Arts)

### Overview

In the Bachelor of Arts program, music majors may choose from four concentrations: music history and literature, performance, theory and composition, and jazz studies.

All students interested in majoring in music must first pass an entrance audition on an instrument or voice. In order to complete the major, all students must attain intermediate level on a single instrument or voice; must have or acquire piano skills sufficient to pass the piano proficiency examination; and must pass a junior standing examination, usually at the end of the sophomore year, before being permitted to declare a concentration.

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Forty Credits in Music: Majors in all concentrations except jazz studies (see below) must take the following core courses: [MU 111](#), [MU 112](#) (history); [MU 053/MU 054](#), [MU 055/MU 056](#), [MU 153/MU 154](#), [MU 155/MU 156](#) (theory); and eight credits of performance study (two credits of ensembles plus six credits of lessons, excluding group piano lessons).

### Concentration in Music History and Literature

Six additional credits at 100-level or higher in music history and literature, three credits in a music concentration other than history and literature, and [MU 211](#). Additionally, students must attain intermediate level on an instrument chosen from the department's offerings.

## Education

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### Concentration in Performance

Six additional credits at the 100-level in performance study, three credits in a music concentration other than performance, and [MU 250](#). Additionally, students must appear each year in department recitals.

### Concentration in Theory and Composition

Six additional credits at the 100-level or higher in theory and composition, three credits in a music concentration other than theory and composition, and [MU 260](#). Additionally, students must attain intermediate level on an instrument chosen from the department's offerings.

### Concentration in Jazz Studies

Concentrators must take [MU 111](#), [MU 112](#) (history); [MU 053/MU 054](#), [MU 055/MU 056](#) (theory); eight credits of performance study (two credits of ensembles plus six credits of lessons, excluding group piano lessons); [MU 024](#), [MU 025](#), [MU 105](#), [MU 159](#), [MU 257](#), [MU 259](#); and four additional credits at the 100-level in performance study and [MU 250](#). (At least two credits of performance study must be in the "classical" idiom.) Additionally, students must appear each year in department recitals.

### Affiliations

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## Music (Undergraduate Minor)

### Specific Requirements

Eighteen hours including six in Music History, six in Theory and six in Private Lessons and/or Ensembles. Eight hours must be at the 100 level above.

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## Music Performance (Bachelor of Music)

### Overview

The Bachelor of Music program, with concentration in performance, is designed for talented students who wish to pursue a career in music as a performer. To earn the degree, students must demonstrate technical competence, and a broad knowledge of musical style and literature. Performance as a soloist and in ensembles is key. Admission is through audition at the end of the freshman year.

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Music](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Students must complete the degree requirements (40 credits) for the Bachelor of Arts with concentration in performance (see Music B.A.), and these additional 40 hours:

- Ensembles [14 credits]
- Applied lessons [4 credits]
- Secondary instrument or voice (four semesters of half-hour lessons) [4 credits]
- Sophomore Recital/Performance Seminar [1 credit]
- Junior Recital [1 credit]
- Senior Recital (in addition to the one hour credit given for [MU 250](#)) [1 credit]
- World Music [3 credits]
- Electronic Music [3 credits]
- Music electives (pedagogy courses strongly recommended) [9 credits]

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## Courses in Music

### MU 001 - Intro to Classical Music

A survey of musical styles from Medieval Gregorian chant to the present. No prerequisite. May not be counted toward the major/minor.

Credits: 3.

### MU 004 - Sound, Sense, and Ideas

A writing-intensive course, exploring topics in Western, non-Western, folk, art, or popular repertoires. See Schedule of Courses for specific topics. Usually offered as a TAP course. No prerequisite. May not be counted toward the major/minor.

Credits: 3.

### MU 005 - Introduction to Jazz History

Survey of jazz from its roots in ragtime and blues of the late nineteenth century to contemporary styles. Prerequisite: Ability to read music, or permission of instructor.

Credits: 3.

### MU 006 - American Music

Survey of American music from the Pilgrims to the present.

Credits: 3.

### MU 007 - Intro to World Music Cultures

Survey of Sub-Saharan, Indian, Indonesian, Latin and Native American, and Middle Eastern music through readings, recordings, and hands-on study of indigenous percussion instruments. No prerequisite.

Credits: 3.

### MU 021 - Beginning Group Lessons

Group lessons at beginning level in voice and various instruments. No prerequisites. May not be counted toward the major. May be repeated for credit.

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Credits: 1.

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**MU 022 - Group Piano**

Intermediate group lessons in piano. Prerequisite: Ability to read music; proficiency on another instrument or voice. May not be repeated for credit.

Credits: 1.

**MU 023 - Group Piano**

Advanced group lessons in piano. Scales, chords, sight-reading, chorales, and repertory. Course culminates in Piano Proficiency Exam. Prerequisites: MU 022, or Instructor permission. May be repeated for credit.

Credits: 1.

**MU 024 - Group Jazz Piano I, II**

Classroom instruction of jazz piano techniques (chord voicing, "comping", basic improvisations, etc.) for non-piano majors.

Credits: 2.

**MU 025 - Group Jazz Piano I, II**

Classroom instruction of jazz piano techniques (chord voicing, "comping", basic improvisations, etc.) for non-piano majors.

Credits: 2.

**MU 033 - Applied Lessons**

Private instruction in an instrument or voice for non-majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to music majors/minors. Juried examinations generally every second semester of study.

Credits: 1 or 2.

**MU 034 - Applied Lessons**

Private instruction in an instrument or voice for non- majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to music majors/minors. Juried examinations generally every second semester of study.

Credits: 1 or 2.

**MU 035 - Applied Lessons**

Private instruction in an instrument or voice for non- majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to Music majors/minors. Juried examinations generally every second semester of study.

Credits: 1 or 2.

**MU 036 - Applied Lessons**

Private instruction in an instrument or voice for non- majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to Music majors/minors. Juried examinations generally every second semester of study.

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Credits: 1 or 2.

**MU 037 - Applied Lessons**

Private instruction in an instrument or voice for non- majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to Music majors/minors. Juried examinations generally every semester of study.

Credits: 1 or 2.

**MU 038 - Applied Lessons**

Private instruction in an instrument or voice for non- majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to Music majors/minors. Juried examinations generally every second semester of study.

Credits: 1 or 2.

**MU 039 - Applied Lessons**

Private instruction in an instrument or voice for non- majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to Music majors/minors. Juried examinations generally every second semester of study.

Credits: 1 or 2.

**MU 040 - Applied Lessons**

Private instruction in an instrument or voice for non- majors. Subject to availability of staff. Lab fee required. Contact department office for placement. Not open for credit to Music majors/minors. Juried examinations generally every second semester of study.

Credits: 1 or 2.

**MU 051 - Exploring Music**

Fundamentals of music notation, rhythm, melody, scales, and harmony. A course for non-majors or for students preparing to enter MU 053 and MU 055. May not be counted toward the major.

Credits: 3.

**MU 053 - Harmony and Form I**

Study through writing and analysis of diatonic harmony, melodic elaboration and chromatic inflection, two-and three-partite forms, and variation procedures. With accompanying lab. Prerequisite: Basic piano and music reading facility, determined by placement test.

Credits: 3.

**MU 054 - Harmony and Form Lab I**

and music reading facility, determined by placement test.

Credits: 1.

**MU 055 - Harmony and Form II**

Study of chromatic harmony (modulation, sequence, applied seventh chords), and

variation, sonata, and rondo forms. With accompanying lab. Prerequisite: MU 053 and MU 054, or Instructor permission.

Credits: 3.

**MU 056 - Harmony and Form Lab II**

Intensive study of solfege (music reading), intermediate keyboard harmony, dictation. Prerequisite: 54, or instructor's permission; piano skill equivalent to Music 23

Credits: 1.

**MU 060 - Intro to Music Technology**

Survey of MIDI and digital audio sequencing, notation, accompaniment, and multimedia software for music composition/arranging, performance, and pedagogy, including survey of pedagogical music software. Prerequisite: Music 53, and permission of instructor.

Credits: 3.

**MU 076 - Brass Methods**

Class instruction on trumpet, trombone, and horn including materials and procedures for teaching these instruments in elementary and secondary schools.

Credits: 2.

**MU 077 - String Methods**

Develop basic technical proficiency on violin, viola, cello, and double bass. Emphasis on beginning pedagogy, and teaching string instruments in a classroom setting.

Credits: 2.

**MU 078 - Woodwind Methods**

Class instruction on flute, clarinet, saxophone and oboe/bassoon including materials and procedures for teaching these instruments in elementary and secondary schools.

Credits: 2.

**MU 079 - Percussion Methods**

Class instruction of various orchestral pitched and unpitched percussive instruments including materials and procedures for teaching these instruments in the elementary and secondary schools.

Credits: 2.

**MU 080 - Vocal Pedagogy**

Foundation course in applied singing, and in teaching singing. Intended for students in music education, and students intending to teach private singing lessons or lead choirs.

Credits: 2.

**MU 085 - Intro to Music Education**

Introduction to the issues of public school education. Emphasis on the development of instructional planning.

Credits: 1.

**MU 095 - Introductory Special Topics**

Courses on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. No prerequisite. May be counted toward the major/minor with Instructor permission.

Credits: 1-6.

**MU 096 - Introductory Special Topics**

Courses on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. No prerequisite. May be counted toward the major/minor with Instructor permission.

Credits: 1-6.

**MU 105 - Introduction to Jazz History**

Includes research projects.

Credits: 3.

**MU 106 - American Music**

Survey of American music from the Pilgrims to the present. Folk, popular, and classical music. Vernacular and cultivated traditions. Includes reserach projects.

Credits: 3.

**MU 107 - Intro to World Music Cultures**

Survey of Sub-Saharan, Indian, Indonesian, Latin and Native American, and Middle Eastern music through readings, recordings, and hands-on study of indigenous percussion instruments. Includes research projects.

Credits: 3.

**MU 111 - Music History & Literature I**

Survey of musical styles through the Baroque. Prerequisite: Music 053-056. (Music 001 is strongly recommended.) Majors/minors, or instructor's permission.

Credits: 3.

**MU 112 - Music History & Literature II**

Survey of musical styles from 1750 to the present. Prerequisite: Music 053-056. (Music 001 is strongly recommended.) Majors/minors, or instructor's permission.

Credits: 3.

**MU 113 - Seminar in Ethnomusicology**

See Schedule of Courses for specific topics. Prerequisite: MU 007 or MU 107; Instructor permission.

Credits: 3.

**MU 121 - Concert Band**

Prerequisite: Audition.

Credits: 1.

**MU 122 - University Concert Choir**

Mixed SATB choir. Performing choral masterworks from the baroque period to the present. Open to all students.

Credits: 1.

**MU 123 - Orchestra**

Full orchestra comprising strings, woodwinds, brass, and percussion. All university students may audition. Several performances each year.

Credits: 1.

**MU 124 - Jazz Band**

Exploration of classic big band repertory and works of contemporary composers and arrangers. Performance in one major concert every semester and occasional appearances off campus. Prerequisite: Audition.

Credits: 1.

**MU 125 - Vermont Wind Ensemble**

Vermont Wind Ensemble is a select group, open to all students. Repertory is chosen from the standard literature as well as contemporary music. Prerequisite: Concurrent enrollment in MU 121; audition.

Credits: 1.

**MU 126 - Accompanying**

Lessons in piano accompanying for soloists, taught by piano and instrumental/vocal faculty. Juried performance expected.

Credits: 1-6.

**MU 127 - University Catamount Singers**

Mixed, select SATB chamber choir. Performing vocal music from the medieval period to the present. Open to all students. Prerequisite: Audition.

Credits: 1-6.

**MU 128 - Opera Workshop**

Study and performance of scenes from the operatic and musical theater repertory for the stage actor/actress.

Credits: 1-6.

**MU 129 - Percussion Ensemble**

Percussion ensemble is open to all students. Repertory is chosen from the standard literature as well as improvisatory traditions of percussion music.

Credits: 1-6.

**MU 130 - Chamber Music**

Study and performance of masterworks for small groups. Attendance at all rehearsals and public performances required. Outside practice required.

Credits: 1-6.

**MU 131 - A & B Jazz Combos**

Small groups (a rhythm section and three to five solo instruments) in which students improve their improvisational skills while learning jazz repertory.



Credits: 1-6.

**MU 133 - Applied Lessons**

Private instruction in an instrument or voice for music majors/minors in the freshman and sophomore years. Lab fee required. Juried examinations generally every semester of study. 133-136 for junior and senior music history and music theory concentrators only. Music education and performance concentrators only. Music education and performance concentrators must continue with 141 - 144

Credits: 1 or 2.

**MU 134 - Applied Lessons**

Private instruction in an instrument or voice for music majors/minors in the freshman and sophomore years. Lab fee required. Juried examinations generally every semester of study. 133 - 136 for junior and senior music history and music theory concentrators only. Music education and performance concentrators must continue with 141 - 144.

Credits: 1 or 2.

**MU 135 - Applied Lessons**

MU 144.

Credits: 1 or 2.

**MU 136 - Applied Lessons**

144.

Credits: 1 or 2.

**MU 137 - Applied Lessons**

144.

Credits: 1 or 2.

**MU 138 - Applied Lessons**

144.

Credits: 1 or 2.

**MU 139 - Applied Lessons**

Private instruction in an instrument or voice for Music majors/minors in the First-Year and Sophomore years. Lab fee Required. Juried examinations generally every semester of study. MU 133-MU 136 for Junior and Senior music history and music theory concentrators only. Music education and performance concentrators must continue with MU 141 - MU 144.

Credits: 1 or 2.

**MU 140 - Applied Lessons**

Private instruction in an instrument or voice for Music majors/minors in the First-Year and Sophomore years. Lab fee required. Juried examinations generally every semester of study. MU 133-MU 136 for Junior and Senior music theory concentrators only. Music education and performance concentrators must continue with MU 141 - MU 144.

Credits: 1 or 2.

**MU 141 - Applied Lessons**

Private instruction in an instrument or voice for majors (performance and music education concentrators) in the Junior and Senior years. Lab fee required. Juried examinations generally every semester of study.

Credits: 1 or 2.

**MU 142 - Applied Lessons**

Private instruction in an instrument or voice for majors (performance and music education concentrators) in the Junior and Senior years. Lab fee required. Juried examinations generally every semester of study.

Credits: 1 or 2.

**MU 143 - Applied Lessons**

Private instruction in an instrument or voice for majors (performance and music education concentrators) in the Junior and Senior years. Lab fee required. Juried examinations generally every semester of study.

Credits: 1 or 2.

**MU 144 - Applied Lessons**

Private instruction in an instrument or voice for majors (performance and music education concentrators) in the Junior and Senior years. Lab fee required. Juried examinations generally every semester of study.

Credits: 1 or 2.

**MU 149 - Soph Recital/Performance Sem**

B.M. Candidates only.

Credits: 1.

**MU 150 - Junior Recital**

B.M. Candidates only.

Credits: 1.

**MU 153 - Harmony and Form III**

Prerequisites: MU 055 and MU 056; Instructor permission. Advanced chromatic harmony, including altered subdominant and dominant functions; study of free forms, the art song, and the late 19th c. character piece. With accompanying lab.

Credits: 3.

**MU 154 - Harmony and Form Lab III**

Intensive study of solfege (music reading), chromatic harmony at the keyboard, dictation and open-score reading. Prerequisites: MU 056; Instructor permission.

Credits: 1.

**MU 155 - Harm & Form IV:20th C Tech**

Writing and analysis: extended tonality, 12-tone techniques and neo-tonality. Examples drawn from seminal works of the 20th century. With accompanying lab. Prerequisites: MU 153 and MU 154; Instructor permission.

Credits: 3.

**MU 156 - Harmony and Form Lab IV**

Intensive study of solfege (music reading), extended tonality and atonality at the keyboard, dictation, and open-score reading. Prerequisites: MU 154, or Instructor permission.

Credits: 1.

**MU 157 - Composition**

Preliminary studies in free composition and the mechanics of score preparation; composition of an extended work for one to five instruments or voices.

Prerequisite: 153, or equivalent, with instructor's permission.

Credits: 3.

**MU 159 - Theory/Prac Jazz Improv I**

Basic repertory, idiomatic usage, aural skills, theoretical constructs, and strategies for the jazz improviser. Prerequisite: intermediate instrumental skill, ability to read music, previous study of traditional music theory.

Credits: 3.

**MU 176 - Music for Elem Teachers**

Development of musical skills, understandings, and attitudes for teaching music in the elementary classroom. Prerequisites: Sophomore standing in elementary education, and early childhood majors only; or acceptance into licensure program.

Credits: 3.

**MU 181 - Conducting**

Baton technique, score reading, and laboratory practice. Preparation and performance of selected scores, including rehearsal procedures. Prerequisite: 153, 154.

Credits: 3.

**MU 195 - Special Topics**

Courses on topics beyond the scope of existing departmental offerings. See schedule of courses for specific titles. Prerequisite: 53-56. Majors/minors or instructor's permission.

Credits: 1-3.

**MU 196 - Special Topics**

Courses on topics beyond the scope of existing departmental offerings. See schedule of courses for specific titles. Prerequisite: 53-56. Majors/minors, or instructor's permission.

Credits: 3.

**MU 201 - Composer Seminar**

Context, history, legacy. Past offerings have included Bach, Beethoven, Stravinsky, and Ellington. See Schedule of Courses for specific topics.

Credits: 3.

**MU 203 - Genre Seminar**

Survey of the musical style within a genre. Context, history, legacy. Past offerings have included piano literature, choral literature, and bebop. See Schedule of Credits: 3.

**MU 205 - Period Seminar**

Survey of music from a particular historical era. Context, composers, legacy. Past offerings have included music of the twentieth century, Baroque music, and twentieth century blues traditions. Prerequisite: 53-56, and either 111 or 112. Credits: 3.

**MU 211 - Senior Music History Project**

Directed readings and research. Research project. Prerequisite: 53-56, 153-56, and senior standing as a music history major. Credits: 1.

**MU 221 - Concert Band**

Concert Band is open to all students. Repertory is chosen from the standard literature as well as contemporary music. Credits: 1.

**MU 222 - University Concert Choir**

Mixed SATB choir. Performing choral masterworks from the baroque period to the present. Open to all students. Credits: 1.

**MU 223 - Orchestra**

Full orchestra comprising strings, woodwinds, brass, and percussion. All university students may audition. Several performances each year. Credits: 1.

**MU 224 - Jazz Band**

Exploration of classic big band repertory and works of contemporary composers and arrangers. Performance in one major concert every semester and occasional appearances off campus. Credits: 1.

**MU 225 - Vermont Wind Ensemble**

Vermont Wind Ensemble is a select group, open to all students. Repertory is chosen from the standard literature as well as contemporary music. Prerequisite: Concurrent enrollment in MU 121. Credits: 1.

**MU 226 - Accompanying**

Lessons in piano accompanying for soloists, taught by piano and instrumental/vocal faculty. Juried performance expected. Credits: 1-6.

**MU 227 - University Catamount Singers**

Mixed, select SATB chamber choir. Performing vocal music from the medieval

period to the present. Open to all students.

Credits: 1-6.

**MU 228 - Opera Workshop**

Study and performance of scenes from the operatic and musical theater repertory for the stage actor/actress.

Credits: 1-6.

**MU 229 - Percussion Ensemble**

Percussion ensemble is open to all students. Repertory is chosen from the standard literature as well as improvisatory traditions of percussion music.

Credits: 1-6.

**MU 230 - Chamber Music**

Study and performance of masterworks for small groups. Attendance at all rehearsals and public performances required. Outside practice required.

Credits: 1-6.

**MU 231 - A & B Jazz Combos**

Small groups (a rhythm section and three to five solo instruments) in which students improve their improvisational skills while learning jazz repertory.

Credits: 1-6.

**MU 250 - Senior Recital**

Credits: 1.

**MU 251 - Advanced Theory:Counterpoint**

Contrapuntal forms and procedures: analysis and writing. Examples from 17th through 20th centuries. Prerequisite: 153, or instructor's permission.

Credits: 3.

**MU 253 - Orchestration**

Characteristics of instruments; study of instrumental scores ; arranging and transcribing for ensembles. Prerequisite: 153, or instructor's permission.

Credits: 3.

**MU 256 - Advanced Composition**

Creative work in free composition leading, when possible, to public performance of the completed work on a departmental concert. Prerequisites: MU 157 or equivalent with Instructor permission.

Credits: 3.

**MU 257 - Jazz Composition and Arranging**

Introduction to concepts and techniques used in jazz arranging and composition through study of historic works. Final project is an arrangement for big band.

Prerequisite: 53-56.

Credits: 3.

**MU 259 - Thry & Prac of Jazz Improv II**

Chord substitution, re-harmonization, scale alteration, "free" improvisation, and other techniques in written assignments and classroom performance of modern jazz repertory. Prerequisites: MU 159, or Instructor permission.

Credits: 3.

**MU 260 - Senior Music Theory Project**

Research paper; Topic chosen under direction of assigned staff member.

Prerequisite: senior standing as theory major.

Credits: 1.

**MU 276 - Elem Music Educ Methods**

Methods and materials for teaching music in elementary schools. Prerequisites: Acceptance into licensure program and Junior standing in Music Education.

Credits: 3.

**MU 277 - Elem Music Educ Methods**

Methods and materials for teaching music in elementary schools. Prerequisites: Acceptance into licensure program; Junior standing in Music Education.

Credits: 3.

**MU 278 - Sec Music Educ Methods**

Methods and materials in the teaching of vocal and instrumental music in secondary schools. Prerequisites: Acceptance into licensure program; Junior standing in Music Education.

Credits: 3.

**MU 279 - Sec Music Educ Methods**

Methods and materials in the teaching of vocal and instrumental music in secondary schools. Prerequisites: Acceptance into licensure program; Junior standing in Music Education.

Credits: 3.

**MU 280 - Hist/Phil Fnd Music Educ**

and society; development of personal teaching philosophy.

Credits: 3.

**MU 281 - Advanced Conducting**

Focus on advanced conducting techniques and score preparation. Exploration of instrumental and vocal conducting techniques. Prerequisite: MU 181.

Credits: 3.

**MU 290 - Teaching Internship**

Supervised field work designed to give students experience in specialized areas for their professional development.

Credits: 12.

**MU 295 - Special Topics**

Credits: 1-6.

**MU 296 - Special Topics**

Credits: 3.

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## Philosophy Department

### Contact Information

University of Vermont  
 Philosophy Department  
 70 South Williams St  
 Burlington, Vermont 05401

Phone: (802) 656-4042  
 Fax: (802) 656-3133  
 Email: [phildept@uvm.edu](mailto:phildept@uvm.edu)

[Web Site](#)

### Affiliations

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## Philosophy (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours including: (a) [PHIL 101](#) and [PHIL 102](#); (b) a total of at least four PHIL 200-level courses in Philosophy. Students considering graduate work are urged to take [PHIL 013](#) and to study a foreign language.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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- Continuing

## Philosophy (Undergraduate Minor)

### Specific Requirements

One course from [PHIL 101](#), [PHIL 102](#), [PHIL 140](#); one 200-level course in Philosophy; and 12 additional hours in Philosophy, at least three of which must be at the 100-level or above.

### Affiliations

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## Courses in Philosophy

### PHIL 001 - Intro Phil: Selected Problems

Introduction to philosophy through such fundamental problems as the existence of God, the basis of morality, and the possibility of knowledge. Contemporary and historical readings. Credit not given for more than one of 1, 3, and 4.

Credits: 3.

### PHIL 003 - Intro Philosophy: East & West

Introduction to the historical dialectic of philosophy by comparisons and contrasts between Chinese and Western traditions of philosophy. Credit not given for more than one of 1, 3, and 4. Offered every semester.

Credits: 3.

### PHIL 004 - Intro to Philosophy: Ethics

Introduction to philosophy through an analysis of the principal problems and theories of ethics. Credit not given for more than one of 1, 3, and 4. Offered every semester.

Credits: 3.

### PHIL 013 - Introduction to Logic

Study of the basic principles of deductive inference.

Credits: 3.

### PHIL 095 - Special Topics

See Schedule of Courses for specific titles.

Credits: 3.

### PHIL 096 - Special Topics

See Schedule of Courses for specific titles.

Credits: 3.

### PHIL 101 - History of Ancient Philosophy

Education

Study of the works of the Pre-Socratics, Plato, Aristotle, and their successors.

- Graduate College

Prerequisite: 1, 3, 4, 95, 96. Fall.

Credits: 3.

- Honors College

**PHIL 102 - History of Modern Philosophy**

Study of works of the major philosophers of the 17th and 18th centuries:

Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, and others.

Prerequisite: 1, 3, 4, 95, 96. Spring.

Credits: 3.

- School of Business Administration

- The Rubenstein School of Environment and Natural Resources

**PHIL 105 - History of Medieval Philosophy**

Study of works of such major philosophical figures as Augustine, Anselm, Abelard, Aquinas, Duns Scotus, and William of Ockham. Prerequisite: PHIL 101 is recommended.

Credits: 3.

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**PHIL 107 - 19th Century Philosophy**

Study of works of such philosophers as Hegel, Fichte, Schopenhauer, J. S. Mill, Kierkegaard, Nietzsche, and Marx. Prerequisite: PHIL 102 is recommended.

Credits: 3.

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**PHIL 108 - Plato**

(See Classics 161.) Prerequisites: 1 course in Philosophy or in Classics (Greek Culture or Greek).

Credits: 3.

**PHIL 111 - Philosophy of Mind**

Inquiry into such topics as consciousness, the relation between the mental (beliefs, sensations, etc.) and the physical (chemicals, neurons, etc.) and how minds represent things. Pre/co-requisites: One of 1, 3, 4, 95, or 96 or one course in psychology.

Credits: 3.

**PHIL 112 - Philosophy of Science**

Introduction to major philosophical problems raised by science. Typical topics: the nature of scientific inference, the structure of theories, causation, explanation, and scientific change. Prerequisite: One course in philosophy or one course in history of science or six hours in any natural science. Fall.

Credits: 3.

**PHIL 118 - Metaphysics**

A study of such topics as vagueness, the nature of time, persistence of objects and people through change and whether numbers or properties exist. Pre/co-requisites: One of 1, 3, 4, 95, 96 or permission.

Credits: 3.

**PHIL 120 - Phil of Cognitive Science**

95 or 96, or permission

Credits: 3.

**PHIL 121 - Chinese Philosophy I**

Study of the Classical Schools of Chinese thought, including Confucianism, Taoism, Mohism, and Legalism. Prerequisite: One course in philosophy, religion, or Asian studies. Offered two out of every three semesters.

Credits: 3.

**PHIL 122 - Chinese Philosophy II**

Chinese thought from the Han Dynasty to Mao Zedong's thought. Prerequisite: 121. Alternate years.

Credits: 3.

**PHIL 130 - Phil Foundations of Education**

Critical examination of the aims of education and the most appropriate means of achieving those aims. Readings from historical and contemporary sources.

Prerequisite: 1, 3, 4, 95, 96. Alternate years.

Credits: 3.

**PHIL 135 - Philosophy of Religion**

Typical topics: the nature of religion, the concept of God, the grounds for belief in God, mortality, truth, and revelation. Historical and contemporary sources.

Prerequisite: 1, 3, 4, 95, 96. Offered once a year.

Credits: 3.

**PHIL 140 - Social & Political Philosophy**

Analysis of such fundamental theories and problems in social and political thought as political obligation, rights, and justice. Prerequisite: 1, 3, 4, 95, 96. Offered once a year.

Credits: 3.

**PHIL 142 - Philosophy of Law I**

(Same as Political Science 143.) Analysis of the nature of law, the relation between law and morality, obligation to obey the law, the judicial decision, responsibility in law, legal ethics. Prerequisite: 1, 3, 4, 95, 96 or Political Science 41. Offered once a year. (Political Science).

Credits: 3.

**PHIL 143 - Philosophy of Law II**

(Same as Political Science 144.) Problems of liberty, e.g. freedom of expression, privacy, paternalism; scope and limits of the criminal law; philosophy of punishment; selected problems in criminal justice, e.g. plea bargaining; preventive detention. Prerequisite: 1, 3, 4, 95, 96 or Political Science 41. Offered once a year. (Political Science).

Credits: 3.

**PHIL 144 - Philosophical Prob Medicine**

Critical and intensive examination of such problems as abortion, euthanasia, dying and death, the ethics of organ transplantation, and the ethics of genetic



engineering. Prerequisite: 1, 3, 4, 95, 96. . Offered once a year.

Credits: 3.

**PHIL 147 - Marxism**

A survey of the philosophy of Karl Marx and the Marxist tradition. Contemporary Marxist perspectives will also be considered. Pre/co-requisites: One of 1, 3, 4, 95, 96 or permission.

Credits: 3.

**PHIL 151 - Phil Ideas in Literature**

Philosophical themes as exemplified in literature. Prerequisite: 1, 3, 4, 95, 96. Alternate years.

Credits: 3.

**PHIL 152 - Philosophy of Art**

A consideration of some leading theories of art, and their application to problems of art as they appear in music, literature, painting, and in the general criticism of the arts. Prerequisite: 1, 3, 4, 95, 96. Offered once a year.

Credits: 3.

**PHIL 153 - Philosophy and Film**

An examination of style in film from the perspective of philosophical aesthetics, and of the ways film style can be used to express philosophical themes.

Prerequisite: 1, 3, 4, 95, 96.

Credits: 3.

**PHIL 160 - Continental Philosophy**

An explanation of such movements in Continental philosophy as phenomenology, existentialism, and structuralism and such figures as Husserl, Heidegger, Sartre, and Foucault. Prerequisites: One of 1, 3, 4, 95, 96 or instructor's permission.

Credits: 3.

**PHIL 170 - Feminism:Theories and Issues**

Theories of libertarianism, liberalism, and egalitarianism; application to the analysis and evaluation of social issues of contemporary interest, such as abortion and affirmative action. Prerequisite: One course in philosophy.

Credits: 3.

**PHIL 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**PHIL 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**PHIL 197 - Readings & Research**

Credits: 1-6.

**PHIL 198 - Readings & Research**

Credits: 1-6.

**PHIL 205 - Seminar:Maj Phil Author/School**

different authors are studied. Pre/co-requisites: One philosophy course at 100-level.

Credits: 3.

**PHIL 208 - Kant**

An examination of issues in the philosophy of Immanuel Kant. Pre/co-requisites: One philosophy course at the 100-level.

Credits: 3.

**PHIL 211 - Phil of Mind:Advanced Topics**

In-depth study of topics like consciousness, the relation between the mental (belief, sensations, etc.) and the physical (chemicals, neurons, etc.) and how minds represent things. Pre/co-requisites: One philosophy course at the 100-level.

Credits: 3.

**PHIL 215 - Free Will**

In this course we will explore whether we have genuine free will, and, if not, how this should affect our views about morality, justice and the meaning of life. Pre/co-requisites: One philosophy course at the 100-level.

Credits: 3.

**PHIL 216 - The Self**

An examination of the nature of the self. We will explore the implications of divided consciousness and ask what makes one the same person over time. Pre/co-requisites: One philosophy course at 100-level.

Credits: 3.

**PHIL 217 - Philosophy of Language**

Philosophical study of the nature of language. Prerequisite: Linguistics 101, 102. Alternate years.

Credits: 3.

**PHIL 218 - Metaphysics:Advanced Topics**

In-depth study of such topics as vagueness, the nature of time, persistence of objects and people through change, and whether numbers of properties exist. Pre/co-requisites: One philosophy course at the 100-level.

Credits: 3.

**PHIL 219 - Epistemology:Advanced Topics**

In-depth study of select topics concerning theories of knowledge and related concepts such as belief, truth, rationality, evidence, perception, and memory. Pre/co-requisites: One philosophy course at the 100-level

Credits: 3.

**PHIL 221 - Topics in Chinese Philosophy**

Detailed examination of a classical Chinese philosophical text or school.

Prerequisite: 121 or 122. Alternate years.

Credits: 3.

**PHIL 235 - Topics in Philosophy of Religion**

Advanced study of such issues as the metaphysics of religion, the epistemology of religious belief, philosophy and faith, religion and science, and religion and ethics.

(May be repeated for credit when topic is significantly different and with departmental approval.) Prerequisites: 101, 102 or 135.

Credits: 3.

**PHIL 240 - Contemporary Ethical Theory**

Analysis of the ideas of contemporary moral philosophers in normative ethics and metaethics. Prerequisite: 140, 142, 143 or 144. Alternate years.

Credits: 3.

**PHIL 241 - Contemporary Social & Political Philosophy**

An analysis of the ideas of contemporary philosophers in social and political philosophy. Prerequisite: 140, 142, 143, or 144. Alternate years.

Credits: 3.

**PHIL 242 - Justice & Equality**

(Same as Political Science 241.) An examination of contemporary normative theories of distributive justice and equality. Prerequisite: 140, 142, 143, or 144.

Offered once a year. (Political Science).

Credits: 3.

**PHIL 244 - Philosophy of Medicine: Advanced Topics**

In-depth study of issues in contemporary medical ethics such as genetic engineering, cloning, embryonic stem cell research, abortion and physician-assisted suicide. Pre/co-requisites: One philosophy course at 100-level.

Credits: 3.

**PHIL 260 - Topics in Continental Philosophy**

Study of a central issue in current continental philosophy, e.g. social theory, psychoanalysis, or aesthetics. Readings Derrida, and Foucault. Prerequisites: Any course in philosophy at the 100 level or above, or instructor's permission. (May be repeated for credit when topic is significantly different.) Alternate years.

Credits: 3.

**PHIL 265 - American Philosophy**

The thought of such leading American philosophers as Peirce, James, Royce, Santayana, Dewey, and Whitehead. Prerequisites: 101, 102. Alternate years.

Credits: 3.

**PHIL 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**PHIL 296 - Adv Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**PHIL 297 - Adv Readings & Research**

Independent study with an instructor on a specific philosopher or philosophical problem. Prerequisite: An appropriate 200-level course in philosophy.

Credits: 1-6.

**PHIL 298 - Adv Readings & Research**

Independent study with an instructor on a specific philosopher or philosophical problem. Prerequisite: An appropriate 200-level course in philosophy.

Credits: 1-6.

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- Continuing

Sin-Yee Chan

Associate Professor of Philosophy

Appointed in 1993

Philosophy Department

BA 1981 University of Hong Kong

MA 1987 University of Michigan Ann Arbor

MA 1990 University of Michigan Ann Arbor

PHD 1993 University of Michigan Ann Arbor

Search Courses for Sin-Yee Chan

Arthur Kuflik

Associate Professor of Philosophy

Appointed in 1979

Philosophy Department

AB 1967 Harvard University

PHD 1973 Princeton University

Search Courses for Arthur Kuflik

Don Loeb

Associate Professor of Philosophy

Appointed in 1991

Philosophy Department

BA 1978 Brandeis University

JD 1982 University of Michigan Ann Arbor

MA 1986 University of Michigan Ann Arbor

PHD 1991 University of Michigan Ann Arbor

Search Courses for Don Loeb

## Education

---

- Graduate College Mark Miller Moyer
  - Honors College Associate Professor of Philosophy  
Appointed in [2001](#)
  - School of Business Administration [Philosophy Department](#)  
BS 1981 [University of California Berkeley](#)  
BA 1994 [Florida State University](#)
  - The Rubenstein School of Environment and Natural Resources PHD 2002 [Rutgers University New Brunswick/Piscataway](#)  
[Search Courses for Mark Moyer](#)
- 

## Policies and General Information

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## Faculty and Administration

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## Catalogue Archives

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Adam Robert Wager  
Associate Professor of Philosophy  
Appointed in [2003](#)  
[Philosophy Department](#)  
BA 1992 [Haverford College](#)  
MA 1996 [University of Iowa](#)  
PHD 2003 [Rutgers University New Brunswick/Piscataway](#)  
[Search Courses for Adam Wager](#)

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- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## Physics Department

### Contact Information

University of Vermont  
 Physics Department  
 Cook Physical Science Building, Room A405  
 82 University Place  
 Burlington VT 05405-0125

Phone: (802) 656-2644  
 Fax: (802) 656-0817  
 Email: [physics@uvm.edu](mailto:physics@uvm.edu)

[Web Site](#)

### Affiliations

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## Physics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-two hours in Physics, including PHYS 031 with [PHYS 021](#), [PHYS 042](#) with [PHYS 022](#), [PHYS 128](#) with [PHYS 130](#), [PHYS 201](#) or [PHYS 202](#), [PHYS 211](#), [PHYS 213](#), [PHYS 273](#); mathematics through [MATH 121](#) and three hours of approved mathematics electives; Computer Science [CS 021](#). An additional laboratory science is strongly recommended.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## Physics (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

All courses in core and all courses in one of the listed options. Core: Physics [PHYS 031](#) with [PHYS 021](#), [PHYS 042](#) with [PHYS 022](#), [PHYS 128](#) with [PHYS 130](#), [PHYS 211](#), [PHYS 213](#), [PHYS 273](#); [PHYS 214](#) or [PHYS 274](#); Mathematics [MATH 021](#), [MATH 022](#), [MATH 121](#); [MATH 271](#) or [MATH 230](#); [MATH 124](#) or [MATH 272](#); Chemistry [CHEM 031](#) and [CHEM 032](#); Computer Science [CS 021](#) (C++).

Options:

- Pure Physics: Physics [PHYS 201](#), [PHYS 202](#), [PHYS 265](#), twelve hours of approved physics electives.
- Mechanical Engineering: [ME 012](#), [ME 014](#), [ME 040](#) with [ME 044](#), [ME 042](#), [ME 101](#), [ME 111](#), and [ME 143](#); [CE 001](#); [EE 100](#).
- Civil & Environmental Engineering: [CE 001](#), [CE 010](#), [CE 100](#), [CE 150](#), [CE 170](#) and [CE 173](#); [ME 012](#), [ME 040](#) with [ME 044](#); [EE 100](#).
- Electrical Engineering (Signals and Systems): [EE 003](#), [EE 004](#), [EE 081](#), [EE 082](#), [EE 120](#), [EE 121](#), [EE 171](#), [EE 174](#), [EE 275](#) and one course from [EE 276](#), [EE 277](#), [EE 295](#); recommended elective Statistics 270.
- Electrical Engineering (Circuits and Devices), [EE 003](#), [EE 004](#), [EE 081](#), [EE 082](#), [EE 120](#), [EE 121](#), [EE 131](#), [EE 163](#), [EE 183](#), [EE 184](#), [EE 221](#).

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## Physics (Undergraduate Minor)

### Specific Requirements

Seventeen hours including PHYS 031 with [PHYS 021](#), [PHYS 042](#) with [PHYS 022](#), [PHYS 128](#) with [PHYS 130](#), and three additional hours at the PHYS 200 level excluding [PHYS 201](#) and [PHYS 202](#). Note: Mathematics through 121 is needed for 128.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Physics Department](#).

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Engineering and  
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## Courses in Physics

### PHYS 011 - Elementary Physics

Algebra-based survey of mechanics, oscillations, waves and thermal physics. Appropriate for students in health and life sciences. Accompanying lab: PHYS 021. Prerequisites: High-school algebra and trigonometry. and trigonometry. Credits: 4.

### PHYS 012 - Elementary Physics

Algebra-based survey of electricity, magnetism, optics and modern physics. Appropriate for students in health and life sciences. Accompanying lab: PHYS 022. Prerequisites: High-school algebra and trigonometry; PHYS 011 or PHYS 031. Credits: 4.

### PHYS 021 - Introductory Lab I

Prerequisite: Concurrent enrollment or credit in 11 or 31. Credits: 1.

### PHYS 022 - Introductory Lab II

Prerequisite: Concurrent enrollment or credit in 12 or 42. Credits: 1.

### PHYS 031 - Introductory Physics

Mechanics including oscillations, waves, heat, and kinetic theory. Recommended for students in engineering, natural Credits: 4.

### PHYS 042 - Electromagnetism & Modern Phys

Electricity, magnetism, optics, modern physics. Recommended for students in engineering, natural sciences, premedical programs. Accompanying lab: 22. Prerequisite: 31, Math. 22.

Education Credits: 4.

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

**PHYS 044 - The Physics of Music**

Basic physical principles underlying the production, transmission and perception of musical sound. Vibrations, waves, elementary acoustics with applications to a wide range of musical topics. Pre-requisite: High School Algebra.

Credits: 3.

**PHYS 095 - Special Topics**

Credits: 0-4.

**PHYS 096 - Special Topics**

Credits: 1-3.

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**PHYS 128 - Waves and Quanta**

Classical and electromagnetic waves, physical optics, wave-particle phenomenology, wave mechanics, and applications of the Schrodinger equation.

Prerequisites: 42, Math. 121.

Credits: 3.

**PHYS 130 - Introductory Laboratory III**

Prerequisite: Concurrent enrollment or credit in PHYS 128.

Credits: 1.

**PHYS 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisite: PHYS 128; department permission.

Credits: 1-6.

**PHYS 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisite: PHYS 128; department permission.

Credits: 1-3.

**PHYS 197 - Readings & Research**

Prerequisite: PHYS 128; department permission.

Credits: 1-6.

**PHYS 198 - Readings & Research**

Prerequisite: PHYS 128; department permission.

Credits: 1-6.

**PHYS 201 - Experimental Physics**

Experiments in classical and modern physics. May be entered at beginning of either semester and repeated for credit up to a maximum of four semesters.

Prerequisites: 42 or 128, Math. 121, junior standing.

Credits: 3.

**PHYS 202 - Experimental Physics**

Experiments in classical and modern physics. May be entered at beginning of

either semester and repeated for credit up to a maximum of four semesters.

Prerequisites: 42 or 128, Math. 121, junior standing.

Credits: 3.

### **PHYS 211 - Mechanics**

Newtonian dynamics of particles and systems of particles, with applications to problems of special importance, such as driven and coupled harmonic oscillators and central field trajectories. Prerequisites: 42, Math. 121.

Credits: 3.

### **PHYS 213 - Electricity & Magnetism**

Fundamental principles of electricity and magnetism; electrostatic fields, and magnetic fields of steady currents. Electric and magnetic properties of matter and electromagnetic energy. Prerequisites: 42, Math. 121. Credit not given for more than one of 213 or Electrical Engineering 141.

Credits: 3.

### **PHYS 214 - Electromagnetism**

Introduction to time dependent electromagnetic fields. Maxwell's equations in vacuum and in matter. Electromagnetic waves and radiation. Prerequisite: 213. Credit not given for more than one of 214 or Electrical Engineering 142.

Credits: 3.

### **PHYS 222 - Biological Physics**

Physical laws, processes, and interactions pertaining to biological systems. Prerequisites: 12 or 42, Math. 121.

Credits: 3.

### **PHYS 242 - Intro to Solid State Physics**

Introduction to crystal structures, reciprocal lattices, lattice vibrations. Thermal properties of solids and free electron theory of metals and semiconductors. Elementary band theory and introduction to electronic transport theory.

Prerequisite: PHYS 128.

Credits: 3.

### **PHYS 257 - Modern Astrophysics**

Stellar structure and evolution, compact objects, the interstellar medium, galactic structure, gravitational theory, and cosmology, the formation of our solar system and terrestrial life. Prerequisite: One 100-level course in physical science or engineering. Cross-listed with: ASTR 257.

Credits: 3.

### **PHYS 258 - Relativity**

Development of Einstein's theory of special relativity. Lorentz transformation, time dilation, length contraction, mass variation, relative velocities. Introduction to four-dimensional space. Concepts of general relativity. Applications selected from astrophysics, elementary particles, etc. Prerequisite: PHYS 128.

Credits: 3.

**PHYS 264 - Nuclear & Elem Particle Physic**

Introduction to theoretical and experimental aspects of nuclear and elementary particle physics. Prerequisite: PHYS 128; Junior standing.

Credits: 3.

**PHYS 265 - Thermal Physics**

Thermodynamics, kinetic theory, statistical mechanics. Prerequisites: 42; Math. 121.

Credits: 3.

**PHYS 273 - Quantum Mechanics I**

Introduction to nonrelativistic quantum mechanics. Schrodinger equation and applications to simple systems. Prerequisite: PHYS 128, PHYS 211.

Credits: 3.

**PHYS 274 - Applictns of Quantum Mechanics**

Applications of Quantum Mechanics including Quantum Statistical Mechanics, Time-Independent and Time- Dependent Perturbation Theory, WKB Approximation, Variational Principle and Scattering. Pre/co-requisite: PHYS 273.

Credits: 3.

**PHYS 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**PHYS 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**PHYS 301 - Mathematical Physics**

variational techniques. Prerequisites: Introduction to basic mathematical methods of theoretical physics; vector and tensor analysis, partial differential equations, orthogonal functions, complex variables and PHYS 211, PHYS 214. Alternate years.

Credits: 3.

**PHYS 305 - Teaching of College Physics**

Instructional strategies and techniques with application to the teaching of laboratories and recitations. Prerequisites: Undergraduate degree in Physics; Instructor permission.

Credits: 1.

**PHYS 311 - Advanced Dynamics**

Classical mechanics presented as the basis of the concepts and methods of modern physics. Variational, Lagrangian, and Hamiltonian formulations, canonical transformations, continuous systems. Prerequisite: PHYS 211. Alternate years.

Credits: 3.

**PHYS 313 - Electromagnetic Theory**

Development of Maxwell's theory of electromagnetism emphasizing its physical basis and the modes of mathematical description. Prerequisite: PHYS 214.

Alternate years.

Credits: 3.

**PHYS 321 - Theoretical Physics**

For research students interested in pursuing topics of general and departmental research interest in theoretical physics. Prerequisite: Instructor Permission.

Offered as occasion warrants.

Credits: 1-6.

**PHYS 323 - Contemporary Physics**

Topics of current interest in physics to be offered as student and faculty interest warrants. May be repeated for credit with department approval. Prerequisite: Instructor Permission.

Credits: 0-6.

**PHYS 331 - Biological Physics**

occasion warrants.

Credits: 1-3.

**PHYS 341 - Solid State Physics**

equivalents; Instructor permission.

Credits: 3.

**PHYS 351 - Seminar: Physics of Materials**

For research students in the field of the physics of materials. Lectures, reports, and directed readings related to the research for the department and the field generally. May be repeated for credit with departmental approval. Prerequisite: Instructor Permission. Offered as occasion warrants.

Credits: 1-3.

**PHYS 362 - Quantum Mechanics II**

Mathematical and physical foundations of nonrelativistic quantum mechanics from the unifying point of view of Dirac. Symmetry operations and the algebraic structure of quantum mechanics are emphasized. Prerequisite: PHYS 273.

Alternate years.

Credits: 3.

**PHYS 391 - Master's Thesis Research**

Credits: 1-12.

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## Faculty for Physics Department

Kelvin Chu

Associate Professor of Physics

Appointed in 1998

[Physics Department](#)

BSC 1988 [Brown University](#)

MS 1989 [University of Illinois Urbana-Champaign](#)

PHD 1995 [University of Illinois Urbana-Champaign](#)

[Search Courses for Kelvin Chu](#)

Dennis Paul Clougherty

Chairperson of Physics

Professor of Physics

Appointed in 2004

[Physics Department](#)

MS 1982 [Massachusetts Institute of Technology](#)

BS 1982 [Massachusetts Institute of Technology](#)

BS 1982 [Massachusetts Institute of Technology](#)

PHD 1989 [Massachusetts Institute of Technology](#)

[Search Courses for Dennis Clougherty](#)

Madalina Ioana Furis

Associate Professor of Physics

Appointed in 2006

[Physics Department](#)

BS 1996 [University of Bucharest](#)

MS 1997 [University of Bucharest](#)

PHD 2004 [University of Buffalo](#)

Education

[Search Courses for Madalina Furis](#)

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

---

Kenneth Ivan Golden  
Professor of Engineering  
Professor of Mathematics and Statistics  
Professor of Physics  
Appointed in [1986](#)

[Mathematics and Statistics Department](#)

[Physics Department](#)

[School of Engineering](#)

BS 1955 [Northwestern University](#)

SM 1956 [Massachusetts Institute of Technology](#)

ME 1957 [Massachusetts Institute of Technology](#)

PHD 1964 [University De Paris](#)

[Search Courses for Kenneth Golden](#)

---

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Administration

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Randall L. Headrick  
Professor of Physics  
Appointed in [2001](#)  
[Physics Department](#)  
BS 1982 [Carnegie Mellon University](#)  
PHD 1988 [University of Pennsylvania](#)

[Search Courses for Randall Headrick](#)

---

Shaheen M. Malghani  
Lecturer I of Physics  
Appointed in [2003](#)  
[Physics Department](#)  
MSC 1974 [University of Baluchistan](#)  
BSC 1974 [University of Baluchistan](#)  
MSC 1983 [University New Brunswick](#)  
PHD 1991 [University of Vermont](#)

[Search Courses for Shaheen Malghani](#)

---

Don Larry Manley  
Lecturer I of Physics  
Appointed in [1991](#)  
[Physics Department](#)  
BS 1952 [Pacific University](#)  
MA 1954 [University of Oregon](#)

[Search Courses for Don Manley](#)

Hans C. Ohanian  
Adjunct Professor of Physics  
Lecturer of Physics  
Appointed in [2004](#)  
[Physics Department](#)  
BA 1963 [University of California Berkeley](#)  
PHD 1968 [Princeton University](#)  
[Search Courses for Hans Ohanian](#)

---

John F. W. Perry  
Lecturer I of Physics  
Appointed in [2004](#)  
[Physics Department](#)  
BA 1963 [University of California](#)  
BA 1966 [Pomona College](#)  
PHD 1972 [University of Rochester](#)  
[Search Courses for John Perry](#)

---

Joanna Marie Rankin  
Professor of Physics  
Appointed in [1980](#)  
[Physics Department](#)  
BS 1965 [Southern Methodist University](#)  
MS 1966 [Tulane University](#)  
PHD 1970 [University of Iowa](#)  
[Search Courses for Joanna Rankin](#)

---

Malcolm M Sanders  
Senior Lecturer of Physics  
Appointed in [1996](#)  
[Physics Department](#)  
BS 1983 [University of Maine](#)  
MS 1984 [Yale University](#)  
MPHIL 1987 [Yale University](#)  
PHD 1991 [Yale University](#)  
[Search Courses for Malcolm Sanders](#)

---

David Young Smith  
Professor of Physics Emeritus  
Appointed in [2002](#)  
[Physics Department](#)  
BS 1956 [Rensselaer Polytechnic Institute](#)  
PHD 1962 [University of Rochester](#)

[Search Courses for David Smith](#)

---

Kevork Spartalian

Associate Professor of Physics

Appointed in [1979](#)

[Physics Department](#)

AB 1968 [Princeton University](#)

MS 1970 [Carnegie Mellon University](#)

PHD 1974 [Carnegie Mellon University](#)

[Search Courses for Kevork Spartalian](#)

---

Jun-Ru Wu

Professor of Engineering

Professor of Physics

Appointed in [1987](#)

[Physics Department](#)

[School of Engineering](#)

MS 1981 [University of California Los Angeles](#)

PHD 1985 [University of California Los Angeles](#)

[Search Courses for Jun-Ru Wu](#)

---

Jie Yang

Associate Professor of Physics

Appointed in [1994](#)

[Physics Department](#)

BS 1982 [Nanjing University](#)

MS 1983 [Princeton University](#)

PHD 1987 [Princeton University](#)

[Search Courses for Jie Yang](#)

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## Political Science Department

### Contact Information

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 532 Old Mill  
 94 University Place  
 Burlington, VT 05405-0114

Phone: (802) 656-3050  
 Fax: (802) 656-0758  
 Email: [Political.Science@uvm.edu](mailto:Political.Science@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## Political Science Department: Academic Offerings

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## Political Science (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty hours in Political Science:

- Four (12 hours) core courses ([POLS 021](#), [POLS 041](#), [POLS 051](#), [POLS 071](#)).
- Eighteen hours at the advanced (POLS 100 or POLS 200) level, three hours of which must be at the POLS 200 level, subject to the following restrictions:
  - Students must complete at least one advanced (POLS 100 or POLS 200) course in three different subfields.
  - Of these 18 hours at the advanced (POLS 100 or POLS 200) level, students must complete at least 12 of those hours, including three hours at the POLS 200 level, in regular UVM political science courses (e.g., excluding study abroad, transfer credit, readings and research).

Note: Internships will not count toward the 30 hours required for the major.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
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## Political Science (Undergraduate Minor)

### Specific Requirements

Eighteen hours in political science, including nine hours from the "core" courses ([POLS 021](#), [POLS 041](#), [POLS 051](#), [POLS 071](#)), and nine hours at the level of POLS 100 or above. Of the nine hours at the POLS 100 level or above, students must complete at least six hours in regular UVM political science courses (e.g., excluding study abroad, transfer credit, readings and research). Internships will not count toward the eighteen hours required for the minor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Political Science Department](#).

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## Courses in Political Science

### POLS 021 - American Political System

Institutions, processes, and problems of American government.

Credits: 3.

### POLS 029 - American Civil Rights Movemnts

Examination of American racial discrimination; emphasis on strategies and actions of NAACP, SCLC, SNCC, Black Panthers, Nation of Islam, to end racial discrimination.

Credits: 3.

### POLS 041 - Intro Prob Political Thought

morality and law; punishment; freedom; equality; obligation and disobedience.

Credits: 3.

### POLS 051 - Intro International Relations

Examination of the basic theoretical concepts in international relations. Introduces the student to systemic, domestic, and individual levels of analysis for assessing foreign policy decisions.

Credits: 3.

### POLS 071 - Comparative Political Systems

Examination of political behavior, political structures, and political processes from a cross-national perspective.

Credits: 3.

### POLS 095 - Special Topics

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-6.

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**POLS 096 - Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-6.

**POLS 121 - Law & Politics**

Examination of the U.S. courts focusing on the legal and political factors that influence court action, and judicial action that affects public policy. Prerequisite: POLS 021.

Credits: 3.

**POLS 122 - Constitutional Law:Gov Powers**

Emphasis on developing skills of legal analysis. Historical origins and general principles of constitutionalism. Prerequisite: POLS 021.

Credits: 3.

**POLS 123 - The Vermont Political System**

Analysis of the political processes and institutions of governance in Vermont in the context of the federal system and other American states. Prerequisite: POLS 021.

Credits: 3.

**POLS 124 - The Presidency**

The functions and activities of the president and staff. Prerequisite: POLS 021.

Credits: 3.

**POLS 125 - Political Parties & Elections**

Analysis of U.S. political parties and elections, including partisan realignments throughout history, campaign technology, and voting for president and Congress. Prerequisite: POLS 021.

Credits: 3.

**POLS 127 - The Congressional Process**

Organization, procedure, and behavior of the chambers of the U.S. Congress. Prerequisite: POLS 021.

Credits: 3.

**POLS 129 - Const Law:Civil Rights America**

Critical examination of role of judiciary in enforcing 14th Amendment's "Equal Protection Clause." Prerequisite: POLS 021.

Credits: 3.

**POLS 131 - Political Leadership**

Methods of identifying leaders, their relationships with nonleaders and with one another, their impact on public policy, and their personalities and social backgrounds. Prerequisite: POLS 021.

Credits: 3.

**POLS 132 - US Supreme Court:Proc&Policy**

The U.S. Supreme Court as one of the three major political institutions, including

the selection process, intracourt politics, and dynamics of court decision making.

Prerequisite: POLS 021.

Credits: 3.

**POLS 133 - Public Opinion/Political Part**

Theories and the empirical study of public opinion and political participation.

Topics include: public opinion polling methodology, the origins of political outlooks, ideology, authoritarianism, generational politics, public opinion on race, voting behavior. Prerequisite: POLS 021.

Credits: 3.

**POLS 137 - Politics and The Media**

The role of the media in politics, including how media presentation and interpretation of events affect public opinion, political institutions, and public policy.

Prerequisite: POLS 021.

Credits: 3.

**POLS 138 - Const Law: Civil Liberties**

Investigation of the Supreme Court's interpretation of the First Amendment, rights of the accused, and the right to privacy. Prerequisite: POLS 021.

Credits: 3.

**POLS 139 - Public Policy:Tools&Processes**

Examination of public policy process with particular focus on tools used to fashion public policy such as contracts, regulations, legislation, and presidential orders.

Pre/co-requisites: POLS 021.

Credits: 3.

**POLS 141 - History of Political Thought**

Development of Western political thought from Plato to Aquinas. Prerequisite: POLS 041.

Credits: 3.

**POLS 142 - History of Political Thought**

Modern political thought from Machiavelli to Nietzsche. Prerequisite: POLS 041.

Credits: 3.

**POLS 143 - Philosophy of Law I**

(Same as Philosophy 142.) Analysis of the nature of law, the relation between law and morality, obligation to obey the law, the judicial decision, responsibility in law, legal ethics. Prerequisite: 41 or Philosophy 1 or 3 or 4.

Credits: 3.

**POLS 144 - Philosophy of Law II**

(Same as Philosophy 143.) Problems of liberty, e.g. freedom of expression, privacy, paternalism; scope and limits of the criminal law; philosophy of punishment; selected problems in criminal justice. Prerequisite: 41 or Philosophy 1 or 3 or 4.

Credits: 3.

**POLS 147 - 20thC Political Thought**

This course examines selected major works by the leading political thinkers of the twentieth century. Pre/co-requisites: POLS 41

Credits: 3.

**POLS 149 - Intermediate Political Theory**

Intermediate courses on topics in political theory beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Prerequisite: POLS 041 or Instructor permission.

Credits: 3.

**POLS 151 - American Foreign Policy**

Overview of the United States' involvement with the world. Focuses on the domestic political, institutional, and ideological influences on the formation of policy. Prerequisite: POLS 051.

Credits: 3.

**POLS 157 - Internatl Politics Middle East**

Formation and operation of the state system in the 20th century Middle East. Emphasis on Great Power involvement, Arab-Israeli issues, regional conflict, transitional ideologies. Prerequisite: POLS 051.

Credits: 3.

**POLS 161 - Political Geography**

(See Geography 177.) Prerequisite: 51 or 71 or Geography 1 or 73.)

Credits: 3.

**POLS 168 - Middle East Politics**

State formation in the Middle East and problems it has occasioned. Review of modern history and examination of contemporary politics of several countries. Prerequisite: POLS 071.

Credits: 3.

**POLS 171 - Western European Political Sys**

A comparative examination of the British, German, and French political systems. Prerequisite: POLS 071.

Credits: 3.

**POLS 172 - Politic&Society in Russian Fed**

Examines the nature of politics and the development of post-Soviet social and economic institutions in Russia. Prerequisite: POLS 071.

Credits: 3.

**POLS 173 - Canadian Political System**

Institutions, process, and problems of the Canadian polity. Prerequisite: POLS 071.

Credits: 3.

**POLS 174 - Latin American Politics**

Comparative examination of selected Latin American political systems.

Prerequisite: POLS 071.

Credits: 3.

**POLS 175 - Govt & Politics of China**

Institutions, processes, and problems of government of China. Prerequisite: POLS 071.

Credits: 3.

**POLS 177 - Pol Systs of Tropical Africa**

Development of differing political systems in African countries located south of the Sahara and north of South Africa. Prerequisite: POLS 071, or one course in African Prerequisite: POLS 071, or one course in African Studies.

Credits: 3.

**POLS 181 - Fund of Social Research**

(Same as Sociology 100.) Introduction to research methods in social science.

Includes examination of research design, measurement, data collection, data analysis, and the presentation and theoretical interpretation of research findings.

Prerequisite: One core course.

Credits: 4.

**POLS 191 - Internships**

Credits: 1-6.

**POLS 192 - Internships**

Credits: 1-6.

**POLS 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**POLS 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**POLS 197 - Readings & Research**

Credits: 1-6.

**POLS 198 - Readings & Research**

Credits: 1-6.

**POLS 222 - Constitutional Law II**

Selected topics in constitutional law. Prerequisite: POLS 122.

Credits: 3.

**POLS 225 - Intergovernmental Relations**

Problems of the federal system. National-state-local cooperative administration of selected public functions. Prerequisite: POLS 021, three hours at the 100-level.

Credits: 3.

**POLS 226 - Topics on the Presidency**

Further study of the executive branch and its operations. Selected topics, e.g. presidential decision making. White House staffing and operations, congressional-executive relations. Prerequisite: POLS 124.

Credits: 3.

**POLS 228 - Congress & Foreign Policy**

Congress's role in foreign policy making, emphasizing congressional action in the post-Vietnam period. Prerequisite: POLS 021, three hours at the 100-level.

Credits: 3.

**POLS 229 - Seminar in American Politics**

Credits: 3.

**POLS 232 - Comparative State Politics**

Politics, policy, and institutions of state governments of the U.S.; techniques for comparative analysis of these aspects of politics. Prerequisite: POLS 021, three hours at the 100-level.

Credits: 3.

**POLS 234 - Topics in Public Opinion**

This course will examine the quality and sophistication of public attitudes, and the motivations that underlie political participation and electoral choice. Pre/co-requisite: POLS 021; three hours at 100 level; Junior/Senior level only.

Credits: 3.

**POLS 238 - Law & Public Policy**

Examination of courts as policymakers, relationships with other actors in the policy process, fields in which courts play policy roles, and difficulties facing judges.

Credits: 3.

**POLS 241 - Justice & Equality**

(Same as Philosophy 242.) Examination of contemporary normative theories of distributive justice and equality. Prerequisites: 41, or Philosophy 1 or 3 or 4, three hours at 100 level.

Credits: 3.

**POLS 242 - American Political Thought**

American political thought from the colonial period to recent times. Prerequisites: POLS 041, three hours at the 100-level. Background in American history recommended.

Credits: 3.

**POLS 243 - Democratic Theory**

The nature of democracy. Both contemporary debates within democratic theory and the classical sources of democratic theory are examined. Prerequisite: POLS 041; three hours at 100 level.

Credits: 3.

**POLS 244 - Liberalism and its Critics**

This course examines the works of leading contemporary liberal political theorists, and also works representing various theoretical approaches critical of liberalism.

Pre/co-requisite: POLS 041; three hours at 100 level.

Credits: 3.

**POLS 249 - Seminar in Political Theory**

Credits: 3.

**POLS 251 - Foreign Pol Newly Indep States**

Examines the development of foreign relations of post- Soviet states, with a special focus on Russia and the post-Communist era. Prerequisite: POLS 051 or three hours at 100 level.

Credits: 3.

**POLS 257 - Pol of European Integration**

plus three hours at the

Credits: 3.

**POLS 258 - Causes of War**

Examination of various theories explaining the outbreak of war, with applications to historical cases. Prerequisite: POLS 051; three hours at the 150 level.

Credits: 3.

**POLS 259 - Sem in International Relations**

Credits: 3.

**POLS 260 - War, Strategy and Politics**

The domestic, international, and geopolitical factors determining states' choice of strategies and tactics in interstate conflicts and confrontations. Contemporary and historical examples. Prerequisite: POLS 051;

Credits: 3.

**POLS 261 - Topics American Foreign Policy**

In-depth examination of selected topics related to the making and implementation of U.S. foreign policy. Prerequisite: POLS 051; three hours at the 150 level.

Credits: 3.

**POLS 263 - Third World Foreign Policy**

The particular security and political economic challenges facing states in the process of nation-building in Latin America, Africa, Middle East, South Asia, Southeast Asia. Prerequisite: POLS 051; three hours at the 150 level.

Credits: 3.

**POLS 264 - US-China Relations**

Examination of the historical context and various causes of the recurring tensions and unresolved issues in U.S.-China relations since 1945. Prerequisite: POLS

051; one 100-level course.

Credits: 3.

**POLS 265 - East Asian Political Economy**

Examination of the historical, political, economic, and international factors for the rise of East Asia since the Second World War. Prerequisite: POLS 051 or POLS 071, one 100-level course.

Credits: 3.

**POLS 272 - Eastern European Pol Systems**

Examination of Eastern European political systems with emphasis on the role of ethnic conflict and Marxist-Leninist ideology. Prerequisites: POLS 071, three hours at the 100-level.

Credits: 3.

**POLS 276 - British Politics**

Topics include the role of the citizenry; the character of political and governmental institutions; and policy making in particular fields. Northern Ireland is also covered. Prerequisite: POLS 071 plus three hours at the 100 level or appropriate International Studies background.

Credits: 3.

**POLS 277 - Comparative Ethno-Nationalism**

Ethnicity and nationalism in Europe, Asia, and Africa. Political, historical, social, and economic factors are examined comparatively. Prerequisite: POLS 071; three Prerequisites: POLS 071, three hours at the 100-level.

Credits: 3.

**POLS 279 - Sem in Comparative Politics**

Credits: 3.

**POLS 284 - Public Opinion:Thry & Rsch I**

Same as SOC 241.\* Prerequisite: POLS 181 or SOC 100.

Credits: 3.

**POLS 285 - Public Opinion:Thry & Rsch II**

Same as SOC 242. Prerequisite: POLS 284 or SOC 241.

Credits: 3.

**POLS 293 - Senior Honors Seminar I**

Examination of major contemporary research topics in political science.

Prerequisite: Admission by invitation only. (Not offered for graduate credit.)

Credits: 3.

**POLS 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.



**POLS 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3-4.

**POLS 297 - Advanced Readings & Research**

For advanced undergraduate and graduate students.

Credits: 3.

**POLS 298 - Advanced Readings & Research**

For advanced undergraduate and graduate students.

Credits: 3.

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## Faculty for Political Science Department

Robert V Bartlett  
 Chairperson of Political Science  
 Professor in the Rubenstein School of Environment and Natural Resources  
 Professor of Political Science  
 Appointed in [2006](#)  
[Political Science Department](#)  
[The Rubenstein School of Environment and Natural Resources](#)  
 BA 1974 [Indiana University Bloomington](#)  
 MPA 1976 [Indiana University Bloomington](#)  
 PHD 1984 [Indiana University Bloomington](#)  
[Search Courses for Robert Bartlett](#)

Caroline Charlotte Beer  
 Associate Professor of Political Science  
 Appointed in [2000](#)  
[Political Science Department](#)  
 BA 1993 [Oberlin College](#)  
 MA 1996 [University of New Mexico](#)  
 PHD 2000 [University of New Mexico](#)  
[Search Courses for Caroline Beer](#)

Eileen Kay Burgin  
 Associate Professor of Political Science  
 Appointed in [1988](#)  
[Political Science Department](#)  
 BA 1978 [University of Michigan Ann Arbor](#)

Education MA 1984 [Harvard University](#)  
PHD 1988 [Harvard University](#)  
• Graduate College [Search Courses for Eileen Burgin](#)

• Honors College

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• School of Business Administration John Patrick Burke  
Professor of Political Science  
Appointed in [1984](#)

• The Rubenstein School of Environment and Natural Resources [Political Science Department](#)  
AB 1975 [Stanford University](#)  
MA 1978 [Princeton University](#)  
PHD 1982 [Princeton University](#)  
[Search Courses for John Burke](#)

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Jan L. Feldman  
Professor of Political Science  
Appointed in [1982](#)  
[Political Science Department](#)  
BA 1976 [Swarthmore College](#)  
MA 1980 [Cornell University](#)  
PHD 1982 [Cornell University](#)  
[Search Courses for Jan Feldman](#)

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Francis Gregory Gause III  
Professor of Political Science  
Appointed in [1995](#)  
[Political Science Department](#)  
AB 1980 [Saint Joseph's University](#)  
PHD 1987 [Harvard University](#)  
[Search Courses for Francis Gause III](#)

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Anthony Gerard Gierzynski  
Professor of Political Science  
Appointed in [1992](#)  
[Political Science Department](#)  
BA 1983 [Northern Illinois University](#)  
MA 1986 [Northern Illinois University](#)  
PHD 1989 [University of Kentucky](#)  
[Search Courses for Anthony Gierzynski](#)

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Deborah Lynn Guber  
Associate Professor of Political Science  
Appointed in [1998](#)  
[Political Science Department](#)

AB 1990 [Smith College](#)  
MA 1992 [Yale University](#)  
MPH 1992 [Yale University](#)  
PHD 1996 [Yale University](#)  
[Search Courses for Deborah Guber](#)

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Lisa M. Holmes  
Associate Professor of Political Science  
Appointed in [2002](#)  
[Political Science Department](#)  
BA 1991 [University of Vermont](#)  
MA 1997 [University of Georgia](#)  
PHD 2001 [University of Georgia](#)  
[Search Courses for Lisa Holmes](#)

---

Edward Raymond McMahon  
Research Associate Professor of Community Development and Applied Economics  
Research Associate Professor of Political Science  
Appointed in [2003](#)  
[Community Development and Applied Economics Department](#)  
[Political Science Department](#)  
BSFS 1978 [Georgetown University](#)  
MA 1981 [Johns Hopkins University](#)  
MS 1986 [Boston University](#)  
[Search Courses for Edward McMahon](#)

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Patrick Allen Neal  
Associate Professor of Political Science  
Appointed in [1988](#)  
[Political Science Department](#)  
BA 1977 [West Virginia University](#)  
MA 1979 [University of Toronto](#)  
PHD 1985 [University of Toronto](#)  
[Search Courses for Patrick Neal](#)

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Garrison Nelson  
Professor of Political Science  
Appointed in [1968](#)  
[Political Science Department](#)  
AB 1964 [Boston University](#)  
MA 1966 [University of Iowa](#)  
PHD 1973 [University of Iowa](#)  
[Search Courses for Garrison Nelson](#)

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Stanislaw J. Staron  
Professor of Policial Science Emeritus  
[Political Science Department](#)  
[Search Courses for Stanislaw Staron](#)

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Robert Pepperman Taylor  
Professor of Political Science  
Appointed in [1986](#)  
[Dean's Office, College of Arts and Sciences](#)  
[Political Science Department](#)  
BA 1980 [Wesleyan University](#)  
MA 1985 [Rutgers University New Brunswick/Piscataway](#)  
MPHL 1985 [Rutgers University New Brunswick/Piscataway](#)  
PHD 1986 [Rutgers University New Brunswick/Piscataway](#)  
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## Psychology Department

### Contact Information

University of Vermont  
 Psychology Department  
 Dewey Hall  
 2 Colchester Ave  
 Burlington, VT 05405-0134

Phone: (802) 656-2670  
 Fax: (802) 656-8783  
 Email: [psychology@uvm.edu](mailto:psychology@uvm.edu)

[Web Site](#)

### Affiliations

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## Psychology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-four hours of psychology including:

- [PSYC 001](#), [PSYC 109](#) and [PSYC 110](#)
- five of the following: [PSYC 104](#), [PSYC 119](#), [PSYC 121](#), [PSYC 130](#), [PSYC 152](#), [PSYC 161](#);
- two of the following: [PSYC 205](#), [PSYC 206](#), [PSYC 207](#), [PSYC 220](#), [PSYC 221](#), [PSYC 222](#), [PSYC 223](#), [PSYC 230](#), [PSYC 231](#), [PSYC 233](#); [PSYC 236](#), [PSYC 237](#), [PSYC 239](#), [PSYC 240](#), [PSYC 241](#), [PSYC 250](#), [PSYC 251](#), [PSYC 252](#), [PSYC 253](#), [PSYC 254](#), [PSYC 255](#), [PSYC 257](#), [PSYC 259](#), [PSYC 261](#), [PSYC 262](#), [PSYC 263](#), [PSYC 265](#), [PSYC 266](#), [PSYC 268](#), [PSYC 269](#);
- one additional course at/above 100 level;

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Psychology Department > Academic Offerings > Psychology (Minor)

## Psychology (Undergraduate Minor)

### Specific Requirements

This minor is not available to students pursuing degree programs not offered by the College of Arts and Sciences.

Eighteen hours including: (1) [PSYC 001](#) and , [PSYC 109](#)\*; (2) three of the following: [PSYC 104](#), [PSYC 119](#), [PSYC 121](#), [PSYC 130](#), [PSYC 152](#), [PSYC 161](#); (3) one of the following: [PSYC 205](#), [PSYC 206](#), [PSYC 207](#), [PSYC 220](#), [PSYC 221](#), [PSYC 222](#), [PSYC 223](#), [PSYC 230](#), [PSYC 231](#), [PSYC 233](#), [PSYC 236](#), [PSYC 237](#), [PSYC 239](#), [PSYC 240](#), [PSYC 241](#), [PSYC 250](#), [PSYC 251](#), [PSYC 252](#), [PSYC 253](#), [PSYC 254](#), [PSYC 255](#), [PSYC 257](#), [PSYC 259](#), [PSYC 263](#), [PSYC 261](#), [PSYC 262](#), [PSYC 263](#), [PSYC 265](#), [PSYC 266](#), [PSYC 268](#), [PSYC 269](#). \*

\*Students earning the minor may instead complete Sociology 100.

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## Psychology: Biobehavioral (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Forty-four hours of psychology including [PSYC 001](#), [PSYC 109](#), [PSYC 110](#), [PSYC 119](#), [PSYC 121](#), [PSYC 130](#), [PSYC 152](#), [PSYC 161](#), and upper division psychology courses as described below; [MATH 019](#), [MATH 020](#) or [MATH 021](#), [MATH 022](#); biology courses as indicated below; and at least three additional hours in an approved science or statistics. For a list of approved offerings in science and statistics, contact the psychology department office. Students opting for a bachelor of science degree in psychology must also complete the College of Arts and Sciences distribution requirements for a B.S. degree and they may not use psychology courses to fulfill the social sciences category.

Students who are interested in behavioral neuroscience and related medical fields, including premedicine preparation, should select this concentration. Required courses include: Biology - [BIOL 001](#), [BIOL 002](#); three category A courses, one from each of the following subcategories (i) [PSYC 221](#) or [PSYC 222](#), (ii) [PSYC 205](#) or [PSYC 220](#), (iii) [PSYC 206](#) or [PSYC 223](#); and one course from [PSYC 207](#), [PSYC 208](#), [PSYC 215](#), [PSYC 230](#), [PSYC 231](#), [PSYC 233](#), [PSYC 234](#), [PSYC 236](#), [PSYC 237](#), [PSYC 239](#), [PSYC 240](#), [PSYC 241](#), [PSYC 250](#), [PSYC 251](#), [PSYC 252](#), [PSYC 253](#), [PSYC 254](#), [PSYC 255](#), [PSYC 257](#), [PSYC 259](#), [PSYC 261](#), [PSYC 262](#), [PSYC 263](#), [PSYC 265](#), [PSYC 266](#), [PSYC 268](#).

The remaining hours must be psychology courses at or above the PSYC 100 level. Independent research is encouraged and these hours may be counted towards the total 44 hours required. A science minor is strongly recommended.

### Affiliations

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## Psychology: Traditional (Bachelor of Science)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Science](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Forty-four hours of psychology including [PSYC 001](#), [PSYC 109](#), [PSYC 110](#), [PSYC 119](#), [PSYC 121](#), [PSYC 130](#), [PSYC 152](#), [PSYC 161](#), and upper division psychology courses as described below; [MATH 019](#), [MATH 020](#) or [MATH 021](#), [MATH 022](#); biology courses as indicated below; and at least three additional hours in an approved science or statistics. For a list of approved offerings in science and statistics, contact the psychology department office. Students opting for a bachelor of science degree in psychology must also complete the College of Arts and Sciences distribution requirements for a B.S. degree and they may not use psychology courses to fulfill the social sciences category.

This concentration is most appropriate for students wishing a broader training in psychology, often in preparation for graduate school. Required courses include: Biology - [BIOL 001](#), [BIOL 002](#); one course from each of the following categories A, B, and C: (A) [PSYC 205](#), [PSYC 206](#), [PSYC 207](#), [PSYC 208](#), [PSYC 215](#), [PSYC 220](#), [PSYC 221](#), [PSYC 222](#), [PSYC 223](#); (B) [PSYC 230](#), [PSYC 231](#), [PSYC 233](#), [PSYC 234](#), [PSYC 236](#), [PSYC 237](#), [PSYC 239](#), [PSYC 240](#), [PSYC 241](#), [PSYC 254\\*](#), [PSYC 257\\*](#), [PSYC 261](#), [PSYC 262](#), [PSYC 263\\*](#), [PSYC 265](#), [PSYC 266](#), [PSYC 268](#); (C) [PSYC 250](#), [PSYC 251](#), [PSYC 252](#), [PSYC 253](#), [PSYC 254\\*](#), [PSYC 255](#), [PSYC 257\\*](#), [PSYC 259](#), [PSYC 263\\*](#). The remaining hours must be psychology courses at or above the 100 level. Independent research is encouraged and these hours may be counted towards the total 44 hours required. A minor in mathematics, statistics, or biology is strongly recommended.

\*Category B or C, but not both.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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## Courses in Psychology

### PSYC 001 - General Psychology

Introduction to the entire field, emphasizing the behavior of the normal adult human being.

Credits: 3.

### PSYC 015 - Improv Memory, Motiv & Cog Skills

Theory and research on learning and memory, motivation, and cognitive skills. Emphasis on the application of principles to everyday life. Prerequisite: PSYC 001 or Instructor permission.

Credits: 3.

### PSYC 095 - Special Topics

Credits: 1-6.

### PSYC 096 - Special Topics

Credits: 1-3.

### PSYC 104 - Learning, Cognition & Behavior

Behavioral and cognitive principles underlying learning, memory, and action inside and outside the laboratory. Includes conditioning, motivation, biological constraints, Pre/co-requisite: PSYC 001.

Credits: 3.

### PSYC 109 - Psychology Research Methods I

Basic course in principles of research methodology, including design, statistical procedures, and reporting. Prepares students to understand and evaluate psychological research in a variety of areas of psychology.

Credits: 3.

### PSYC 110 - Psychology Research Methods II

More advanced methodology course for majors in psychology. Prepares students

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to conduct and report research in psychology, with special attention to experimental procedures in learning and cognition. Laboratory experiences.  
Prerequisite: PSYC 109.

Credits: 4.

**PSYC 111 - Psychology of Decision Making**

Introduction to the study of individual and group decisions. Focus on "how," "how best," and "how reasonably" to decide. Attention to tricks and traps in the process.  
Prerequisite: PSYC 001. Summer only.

Credits: 3.

**PSYC 119 - History of Psychology**

Review of major theoretical and empirical developments in psychology, including schools of psychology that have influenced contemporary models of psychology.  
Prerequisite: PSYC 001; Junior or Senior standing.

Credits: 3.

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**PSYC 121 - Biopsychology**

Biological bases of behavior: classical and contemporary issues, including introduction to nervous system, behavioral effects of drugs, chemical bases of behavioral disorders. Prerequisite: PSYC 001 or BIOL 001.

Credits: 3.

**PSYC 130 - Social Psychology**

An introduction to concepts and methods used to study the behavior of individuals in various social situations. Prerequisite: PSYC 001.

Credits: 3.

**PSYC 152 - Abnormal Psychology**

Describing and defining abnormal behavior; models of etiology; research evidence for biological and social models; methods of intervention and prevention.  
Prerequisite: PSYC 001.

Credits: 3.

**PSYC 161 - Developmental Psyc:Childhood**

Survey of research and theories on child development from conception to adolescence emphasizing experimental analyses of early social and cognitive development. Prerequisite: PSYC 001.

Credits: 3.

**PSYC 163 - Psychology Mass Communication**

Survey of theory and research concerning mass media effects in children's socialization, information diffusion, and in shaping values, behaviors regarding health, politics, consumer choices, and environment. Prerequisite: PSYC 001 or Instructor permission.

Credits: 3.

**PSYC 195 - Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-6.

**PSYC 196 - Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-6.

**PSYC 197 - Independent Study**

Individual research under staff direction. Prerequisite: Department permission.

Credits: 1-6.

**PSYC 198 - Independent Study**

Individual research under staff direction. Prerequisite: Department permission.

Credits: 1-6.

**PSYC 205 - Learning**

Analysis of theory and research on the basic learning process and behavior.

Prerequisite: PSYC 109.

Credits: 3.

**PSYC 206 - Motivation**

Theory and research on motives, including hunger, fear, sex drive, and addiction, their influence on behavior, relationship to other psychological processes, and biological correlates. Prerequisite: PSYC 109.

Credits: 3.

**PSYC 207 - Thinking**

Survey of cognitive psychology, examining theory and research on perception, memory, language, cognition, and their interactions. Prerequisites: 109.

Credits: 3.

**PSYC 208 - Cognition & Language**

(See Communication Sciences 208.)

Credits: 3.

**PSYC 215 - Cognition & Aging**

(See Communication Sciences 215.)

Credits: 3.

**PSYC 220 - Animal Behavior**

Behavior of animals under controlled experimental conditions and in their natural environments. Consideration of evolution, development, function, and control of behavior. Prerequisite: 109 or Biology 102.

Credits: 3.

**PSYC 221 - Physiological Psychology I**

and perception. Individual laboratory experience. Prerequisite: 109.



Credits: 4.

**PSYC 222 - Sel Topics Behavioral Neurosci**

Selected topics examining the role of the central nervous

Credits: 3.

**PSYC 223 - Psychopharmacology**

Effects of drugs (both medical and recreation) on behavior. Topics such as drug effects on learning, memory, motivation, perception, emotions, and aggression.

Prerequisites: 109, 121 or 222.

Credits: 3.

**PSYC 230 - Advanced Social Psychology**

or PSYC 130.

Credits: 3.

**PSYC 231 - Psychology of Women**

Psychological theories about women and research on women's roles. Biological, personality, cognitive, and developmental factors considered. Prerequisite: One Psychology course at the 100 level.

Credits: 3.

**PSYC 233 - Experience & Creativity**

Explores psychological processes for developing creative thinking and for enhancing the quality of conscious experience. Emphasizes personal growth as well as theoretical understanding. Prerequisite: Advanced background in at least one relevant field, such as Psychology, Environmental Studies, Studio Art, or education.

Credits: 3.

**PSYC 235 - Psychology of Art**

Exploration of key psychological processes involved in creating and experiencing all forms of art; participants also conduct a research project in an area of interest.

Prerequisite: Strong background in Psychology and/or Art. UG only.

Credits: 3.

**PSYC 236 - Theories of Human Comm**

Study of the role of perception, human information processing, language, nonverbal codes, meaning, cognition, and interpersonal and sociocultural context in human communication process. Prerequisite: PSYC 109 or PSYC 130.

Credits: 3.

**PSYC 237 - Cross-Cultural Communication**

Study of cultural factors, cognitive processes, communication patterns, and problems in cross-cultural communication; role of communication in development and social change in third world countries. Prerequisite: PSYC 109 or PSYC 130 or PSYC 230; other advanced background in education or a social science.

Credits: 3.

**PSYC 239 - Adv Soc Psyc Appl&Facilitation**

Explores psychological foundations of approach used in 130 for applying academic content. Involves research and readings beyond work for 139.

Prerequisite: 139, or 12 hours of psychology and department permission. Intended for 130 group facilitators with advanced psychology background. (Not offered for graduate credit.)

Credits: 3.

**PSYC 240 - Organizational Psychology**

Study of the psychological impact of macro and micro features of organizations upon leadership, decision making, workforce diversity, group process, conflict, and organizational performances. Prerequisite: PSYC 109, or Instructor permission.

Credits: 3.

**PSYC 241 - Org Psyc:Glob/Cultr/Loc Force**

Study of global, cultural, and local dynamics upon organizational culture, leadership, workforce diversity, ethics and justice at work, and conflict resolution.

Conduct applied organizational cultural analysis. Prerequisite: PSYC 109 or Instructor permission.

Credits: 3.

**PSYC 250 - Intro to Clinical Psychology**

Study of basic principles of interviewing, testing, assessment from life situations, and report writing. Examination of the most common approaches to psychotherapy. Prerequisite: PSYC 109, PSYC 152.

Credits: 3.

**PSYC 251 - Behav Disorders of Childhood**

An overview of theory, research, and practice in developmental psychopathology from infancy through adolescence. The major disorders of social and emotional development reviewed. Prerequisite: PSYC 109 or PSYC 161. PSYC 109 may be taken concurrently.

Credits: 3.

**PSYC 253 - Advanced Behavior Modification**

Application of techniques for the modification of human behavior in a variety of educational and social situations involving the collection and analysis of behavioral data. Prerequisite: PSYC 109, PSYC 152.

Credits: 3.

**PSYC 254 - Prim Prevent&Mental Hlth Promo**

An examination of empirical approaches to prevention of mental and emotional disorders; history of public health methods; sources of support and opposition to prevention efforts. Prerequisites: 109, 152. UG only.

Credits: 3.

**PSYC 255 - Intro to Health Psychology**

Psychology of the cause, treatment, and prevention of physical illness and

disability. Topics include: stress, health behavior, medical compliance, patient-provider relationships, coping with illness. Prerequisite: 109 or advanced standing in Allied Health Sciences. UG only.

Credits: 3.

**PSYC 261 - Cognitive Development**

Examination of research and theory concerning developmental changes in the human processing of information from infancy to adulthood centered around the work of Piaget. Prerequisite: PSYC 109 or PSYC 161. PSYC 109 may be taken concurrently.

Credits: 3.

**PSYC 262 - Social Development**

Examination of theory and research concerning interpersonal development in humans from infancy through adulthood. Relationships between language, cognition, and social development emphasized. Prerequisite: PSYC 109 or PSYC 161. 109 may be taken concurrently.

Credits: 3.

**PSYC 263 - Disabilities of Learning & Dev**

Seminar in etiology, treatments, prevention of developmental and learning disabilities within framework of current service and educational practices. Effectiveness, ethical, legal, psychological issues examined. Prerequisite: One 100-level Psychology course or advanced standing in Psychology, Education, or Physical Therapy.

Credits: 3.

**PSYC 265 - Infant Development**

Biological, cognitive, and social aspects of infant development in context; opportunities to evaluate and design research and apply knowledge to parenting, prevention, and social policy. Prerequisite: PSYC 109, PSYC 161 which may be taken concurrently or comparable.

Credits: 3.

**PSYC 266 - Communication & Children**

Study of the role of communication, especially television, in cognitive and social development from preschool to adolescence. Relationship between television violence and abnormal behavior examined. Prerequisite: PSYC 109 or PSYC 161 or PSYC 163.

Credits: 3.

**PSYC 268 - Psychology Adult Dev & Aging**

Psychological development in the final third of the life span emphasizing theory and research concerning social, cognitive, perceptual, and mental health transitions and support interventions. Prerequisites: 1, and Sociology/Nursing/Early Childhood and Human Dev. 20 or

Credits: 3.

**PSYC 269 - Cross-Cultural Psyc:Clin Persp**

Introduction to issues posed for psychologists in their work with ALANA (African, Latino/a, Native and Asian American) and international populations. Critical appraisal of readings, research and case studies.

Credits: 3.

**PSYC 295 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 0-3.

**PSYC 296 - Advanced Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**PSYC 301 - Faculty Seminar**

Introduction to specialized areas of psychology.

Credits: 0.

**PSYC 302 - Faculty Seminar**

Introduction to specialized areas of psychology.

Credits: 0.

**PSYC 305 - Seminar in Learning Theory**

Credits: 3.

**PSYC 332 - Cognition in Social Behavior**

Permission.

Credits: 3.

**PSYC 334 - Organizational Behav&Cultures**

Examination of the impact of various organizational cultures upon leadership, personnel selection, group processes, motivation, entrepreneurship, decision making, conflict, negotiation strategies, and organizational development.

Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 340 - Adv Statistical Methods I**

Statistical methods for evaluating psychological data. Emphasizes exploring data with respect to research hypotheses. Critical study of hypothesis tests on means, chi-square, and correlational techniques.

Credits: 3.

**PSYC 341 - Adv Statistical Methods II**

Continuation of PSYC 340. In-depth study of the analysis of variance and multiple regression. Further study of analysis and interpretation of data from the behavioral sciences. Prerequisite: PSYC 340.

Credits: 3.

**PSYC 344 - Experimental Design**

Credits: 3.

**PSYC 347 - Measurement & Scaling**

Traditional psychophysical methods, Thurstonian judgmental methods, recent topics in unidimensional scaling. Techniques, applications in multidimensional scaling. Relation of these to mental test theory, factor analysis, cluster analysis.

Prerequisites: PSYC 340, PSYC 341.

Credits: 3.

**PSYC 349 - Seminar in Psyc Research Meth**

For advanced psychology Graduate students. Topics may include but are not limited to: factor analysis, discriminant function analysis, multivariate analysis of variance, advanced experimental design, computer application in data collection and analysis. Prerequisite: PSYC 341; or Instructor permission.

Credits: 3.

**PSYC 350 - Family Therapy**

Prerequisite:

Credits: 3.

**PSYC 351 - Behavior Therapy: Adults**

Review of literature relating to theory, practice, research. Emphasis on the evaluation of a variety of procedures applied to behavior disorders in adults.

Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 352 - Behavior Therapy: Children**

Review of literature relating to theory, practice, research. Emphasis on the evaluation of a variety of procedures applied to behavior disorders in children.

Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 353 - Clinical Human Neuropsychology**

PSYC 222, or equivalent.

Credits: 3.

**PSYC 354 - Psychopathology I**

An advanced course dealing with models of classification, diagnosis, epidemiology of behavior disorders in children. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 355 - Psychopathology II**

An advanced course dealing with models of classification, diagnosis, epidemiology of behavior disorders in adults. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 357 - Cross Culture Clin Interv&Rsch**

Issues for psychologists regarding clinical intervention and research with Black, Latino/a, Native and Asian Americans and international populations of color with

an eye towards cultural competence. Prerequisites:

Credits: 3.

**PSYC 359 - Interpersonal Psychotherapy**

An examination of psychotherapy as an interpersonal process. Resistance, transference, and counter-transference examined as interpersonal interactions and related to interpersonal personality theory. Prerequisites: Advanced Graduate standing; Instructor permission.

Credits: 3.

**PSYC 361 - Advanced Personality Theory**

Personality development from a psychoanalytic, humanistic, trait, and sociocultural perspective. Also, methods of personality measurement, such as scale construction and the analysis of fantasy and projective material. Prerequisite: Permission.

Credits: 3.

**PSYC 362 - Community Clinical Psychology**

Seminar examining community intervention strategies for psychological problems and health risk behaviors. Topics: history of community psychology, discussion of intervention programs, consultation issues, research. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 363 - Advanced Primary Prevention**

Review of research literature on prevention of psychopathology and promotion of competence; development of model prevention programs; evaluation, ethical issues, and political issues. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 364 - Professional Affairs & Ethics**

The origins of professions and of psychology in particular. Accreditation, laws affecting psychology, organization of the profession, licensing certification, and the code of ethics for psychology. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 366 - Advanced Developmental Psyc**

Critical Analysis of selected topics in developmental psychology. Research, theory, applied, professional issues including, for example, moral development, infancy, early conceptual development, professional writing. Prerequisite: Graduate standing in Psychology. Repeatable course.

Credits: 3.

**PSYC 369 - Health Psychology**

Psychological aspects of the etiology, treatment, prevention of physical illness. Topics include: stress and disease, compliance, health care systems, coping with illness, positive health behavior. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 370 - Adult Psychological Assessment**

Intelligence, neuropsychology, interviewing, psychodiagnosis, objective and projective personality methods, behavioral assessment, report writing. Supervised assessment practicum (100 hours) in university and in-patient mental health settings. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 371 - Child & Adolescent Psyc Assess**

Interviewing, intelligence testing, behavioral assessment, social cognition, family environments, specific disorders of childhood. Supervised assessment practicum (100 hours) in in-patient and out-patient mental health settings and schools. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 372 - Psychological Intervention I**

Introduction to psychotherapy, theories, and strategies. Skill building in case formulation, therapeutic goals, and effective intervention techniques. Supervised therapy practicum (100 hours) in university setting. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 373 - Psychological Intervention II**

Theories and strategies of psychological intervention. Supervised service delivery (150 hours) at University Counseling and Testing Center including individual and group therapy and crisis intervention. Prerequisite: Instructor Permission.

Credits: 0.

**PSYC 374 - Advanced Clinical Practicum**

Year-long, 20 hours/week supervised service delivery (1,000 hours) involving psychological intervention and consultation. Training takes place in a variety of mental health agencies. Prerequisites: Second-year student or above (or equivalent) in Ph.D. program in Clinical Psychology and permission. (May be taken more than once.)

Credits: 1.

**PSYC 375 - Internship in Clinical Psyc**

Credits: 0.

**PSYC 380 - Contemporary Topics**

Selected topics in depth, emphasis on critical analysis of original literature. Recent topics: anxiety, behavioral pharmacology, biological bases of memory, depression, organizational behavior, psychotherapy research, primate behavior, skilled performance.

Credits: 3.

**PSYC 381 - Clinical Research Seminar**

Year-long seminar on methods and design in clinical research. Oral and written presentation of a research proposal and results. Required twice for clinical

students. Prerequisite: Instructor Permission.

Credits: 3.

**PSYC 382 - Adv Professional/Research Sem**

Discussion of current research and student research presentation in areas of concentration ("clusters"). Prerequisite: Graduate standing in General/Experimental Program.

Credits: 1.

**PSYC 385 - Advanced Readings & Research**

Readings, with conferences, to provide graduate students with backgrounds and specialized knowledge relating to an area in which an appropriate course is not offered.

Credits: 1-3.

**PSYC 391 - Master's Thesis Rsch**

Credits: 1-18.

**PSYC 395 - Special Topics**

Credits: 1-12.

**PSYC 491 - Doctoral Dissertation Research**

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## Faculty for Psychology Department

Joseph D. Allen

Lecturer I of Psychology

Appointed in [2000](#)

[Honors College](#)

[Psychology Department](#)

BA 1961 [Hamilton College](#)

MA 1964 [Southern Illinois University Carbondale](#)

PHD 1967 [Southern Illinois University Carbondale](#)

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Robert Althoff

Assistant Professor of Psychology

Associate Professor of Pediatrics

Associate Professor of Psychiatry

Appointed in [2006](#)

[Neuroscience Graduate Program](#)

[Pediatrics Department](#)

[Psychiatry Department](#)

[Psychology Department](#)

BS 1991 [University of Illinois](#)

PHD 1998 [University of Illinois](#)

MD 1999 [University of Illinois](#)

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Elliott M. Benay

Clinical Assistant Professor of Psychology

Appointed in [1995](#)

- Education [Psychology Department](#)
- Graduate College BA 1970 [George Washington University](#)  
MA 1972 [The New School](#)
- Honors College [Search Courses for Elliott Benay](#)

- School of Business Administration  
Percy Black  
Adjunct Professor of Psychology  
Appointed in [2000](#)  
[Psychology Department](#)  
BSC 1944 [Sir George William College](#)  
MSC 1946 [McGill University](#)  
PHD 1954 [Harvard University](#)

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Lynne Anne Bond  
Professor of Psychology of the Psychology Department  
Appointed in [1976](#)

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[Art and Art History Department](#)  
[Psychology Department](#)  
BA 1971 [Wheaton College](#)  
MS 1973 [Tufts University](#)  
PHD 1975 [Tufts University](#)  
[Search Courses for Lynne Bond](#)

Heather Ann Bouchey  
Assistant Professor of Psychology  
Appointed in [2002](#)  
[Psychology Department](#)  
BS 1992 [Cornell University](#)  
MS 1995 [Illinois State University](#)  
PHD 2000 [University of Denver](#)  
[Search Courses for Heather Bouchey](#)

Mark Earhart Bouton  
Professor of Psychology  
Appointed in [1980](#)  
[Neuroscience Graduate Program](#)  
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BA 1975 [Williams College](#)  
PHD 1980 [University of Washington](#)  
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Judith A. Christensen  
Clinical Assistant Professor of Psychiatry  
Lecturer of Psychology  
Appointed in 1999  
Psychology Department  
BS 1972 Northeastern University  
MED 1973 Boston College  
MA 1994 University of Vermont  
PHD 1998 University of Vermont  
Search Courses for Judith Christensen

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Eugene Raymond Delay  
Associate Professor of Biology  
Associate Professor of Psychology  
Director of Undergraduate Neuroscience Program  
Appointed in 2005  
Biology Department  
Neuroscience Graduate Program  
Psychology Department  
BS 1972 University of Idaho  
MS 1977 University of Georgia  
PHD 1979 University of Georgia  
Search Courses for Eugene Delay

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Owen W Drudge  
Clinical Assistant Professor of Psychology  
Appointed in 1996  
Psychology Department  
BS 1978 Northern Michigan University  
PHD 1986 University of Vermont  
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William A. Falls  
Chairperson of Psychology  
Professor of Psychology  
Appointed in 1998  
Neuroscience Graduate Program  
Psychology Department  
BA 1987 Bates College  
MS 1989 Yale University  
PHD 1993 Yale University  
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Karen Marie Fondacaro  
Clinical Professor of Psychology  
Appointed in [1988](#)  
[Psychology Department](#)  
BA 1982 [SUNY Stony Brook](#)  
PHD 1988 [University of Vermont](#)  
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Rex L. Forehand  
Director of the Clinical Psychology Program  
Professor of Psychology  
Appointed in [2003](#)  
[Psychology Department](#)  
BA 1967 [University of Alabama](#)  
MA 1969 [University of Alabama](#)  
PHD 1970 [University of Alabama](#)  
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Laura Gibson  
Clinical Associate Professor of Psychology  
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[Psychology Department](#)  
BA 1994 [Carleton College](#)  
PHD 2001 [University of Vermont](#)  
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Diane T. Gotlieb  
Clinical Assistant Professor of Psychiatry  
Clinical Assistant Professor of Psychology  
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[Psychiatry Department](#)  
[Psychology Department](#)  
BS 1967 [University of Wisconsin Madison](#)  
MSW 1969 [Adelphi University](#)  
MA 1988 [Fielding Graduate University](#)  
PHD 1992 [Fielding Graduate University](#)  
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John Thomas Green  
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BA 1990 [Drexel University](#)

MA 1996 [Temple University](#)

PHD 1998 [Temple University](#)

[Search Courses for John Green](#)

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Barry Estill Guitar

Director of Communication Sciences

Professor of Communication Sciences

Professor of Psychology

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[Communication Sciences and Disorders Department](#)

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BA 1966 [Dartmouth College](#)

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PHD 1974 [University of Wisconsin Madison](#)

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Sayamwong E Hammack

Associate Professor of Psychology

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[Psychology Department](#)

BS 1995 [Florida State University](#)

MA 1998 [University of Colorado](#)

PHD 2001 [University of Colorado](#)

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Betsy Hoza

Professor of Psychology

Appointed in [2005](#)

[Psychology Department](#)

BA 1981 [Princeton University](#)

PHD 1989 [University of Maine](#)

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Kathleen B. Kennedy

Lecturer I of Psychology

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[Psychology Department](#)

BA 1986 [Boston College](#)

MA 1995 [Saint Michaels College](#)

PHD 1998 [University of Vermont](#)

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Miriam London  
Clinical Assistant Professor of Psychology  
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[Psychology Department](#)  
BA 1977 [Stanford University](#)  
PHD 1983 [Yale University](#)  
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Marlene Tamar Maron  
Clinical Associate Professor of Pediatrics  
Clinical Associate Professor of Psychiatry  
Clinical Associate Professor of Psychology  
Appointed in [1997](#)  
[Pediatrics Department](#)  
[Psychiatry Department](#)  
[Psychology Department](#)  
BA 1980 [Brandeis University](#)  
MA 1982 [Colgate University](#)  
PHD 1991 [Virginia Commonwealth University](#)  
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Carol Therese Miller  
Professor of Psychology  
Appointed in [1979](#)  
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BA 1975 [Purdue University](#)  
MS 1977 [Purdue University](#)  
PHD 1979 [Purdue University](#)  
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Kelly Joanna Rohan  
Associate Professor of Psychology  
Appointed in [2005](#)  
[Psychology Department](#)  
BA 1993 [Saint Bonaventure University](#)  
PHD 1998 [University of Maine](#)  
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Lee David Rosen  
Assistant Professor of Psychiatry  
Lecturer of Psychology  
Appointed in [1992](#)

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BA 1986 [Oberlin College](#)  
MA 1991 [University of Massachusetts Amherst](#)  
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Stacey C. Sigmon  
Associate Professor of Psychiatry  
Research Assistant Professor of Psychology  
Appointed in [2004](#)  
[Neuroscience Graduate Program](#)  
[Psychiatry Department](#)  
[Psychology Department](#)  
BA 1995 [University of North Carolina Chapel Hill](#)  
MA 1999 [University of Vermont](#)  
PHD 2002 [University of Vermont](#)  
[Search Courses for Stacey Sigmon](#)

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Nancy Tara Silberg  
Adjunct Assistant Professor of Psychology  
Appointed in [1993](#)  
[Psychology Department](#)  
BA 1984 [Lafayette College](#)  
PHD 1990 [University of Vermont](#)  
[Search Courses for Nancy Silberg](#)

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Sondra Elice Solomon  
Associate Professor of Psychology  
Clinical Associate Professor of Psychiatry  
Appointed in [1995](#)  
[Psychiatry Department](#)  
[Psychology Department](#)  
BA 1970 [Long Island University](#)  
MA 1990 [New York University](#)  
PHD 1994 [University of Vermont](#)  
[Search Courses for Sondra Solomon](#)

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Timothy R Stickle  
Associate Professor of Psychology  
Appointed in [2003](#)  
[Psychology Department](#)  
BSw 1978 [Grand Valley State University](#)

MA 1982 [Antioch University Seattle](#)

MA 1997 [University of Arizona](#)

PHD 2000 [University of Arizona](#)

[Search Courses for Timothy Stickle](#)

---

James Michael Tallmadge

Clinical Assistant Professor of Psychiatry

Clinical Assistant Professor of Psychology

Appointed in [1998](#)

[Psychiatry Department](#)

[Psychology Department](#)

BS 1978 [Xavier University](#)

MS 1983 [Marquette University](#)

PHD 1988 [Miami University Oxford](#)

[Search Courses for James Tallmadge](#)

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Alexandra H. Thomsen

Clinical Assistant Professor of Pediatrics

Clinical Assistant Professor of Psychology

Appointed in [2003](#)

[Pediatrics Department](#)

[Psychology Department](#)

BA 1989 [Harvard University](#)

PHD 2000 [University of Vermont](#)

[Search Courses for Alexandra Thomsen](#)

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Dharam Pal Yadav

Associate Professor of Psychology

Appointed in [1970](#)

[Psychology Department](#)

BS 1957 [St. Stephen's College](#)

MA 1960 [Delhi University](#)

PHD 1967 [Michigan State University](#)

[Search Courses for Dharam Yadav](#)

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Michael Joseph Zvolensky

Professor of Psychology

Appointed in [2001](#)

[Psychology Department](#)

BA 1996 [SUNY Buffalo](#)

MA 1998 [West Virginia University](#)

PHD 2001 [West Virginia University](#)

[Search Courses for Michael Zvolensky](#)



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## Religion Department

### Contact Information

University of Vermont  
 Religion Department  
 481 Main St  
 Burlington, VT 05405-0218

Phone: (802) 656-0232  
 Email: [wpaden@uvm.edu](mailto:wpaden@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## Religion (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three hours in Religion, including [REL 100](#) and [REL 201](#); one course chosen from the REL 020-027 range; one course from the REL 101-109 range (comparative); one course from the REL 110-130 range (Biblical traditions); one course from the REL 130-149 range (Asian traditions); an additional course at the 200 level. [REL 130](#) may count for either the Biblical or Asian traditions requirement, but not for both. Three hours in related, non-departmental courses may count toward the thirty-three hour requirement. A list of approved courses is available from the Religion Department.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
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## Religion (Undergraduate Minor)

### Specific Requirements

Eighteen hours in Religion including: one introductory course from the REL 020-027 range; REL 100; one course from REL 101-109 range; one intermediate level course on a particular religious tradition (from REL 110-149); one course at the REL 200 level; an additional Religion course.

### Affiliations

- Colleges and Schools:College of Arts and Sciences.
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## Courses in Religion

### REL 020 - Intro Rel:Comparative

religious traditions and cultures.

Credits: 3.

### REL 021 - Intro Rel:Asian Traditions

Study of the Hindu, Buddhist, and East Asian religious traditions as expressed in their basic symbolisms, writings, practices, and cultural forms.

Credits: 3.

### REL 022 - Intro Rel:Western Traditions

Study of the basic motifs, mythic patterns, and historical transformations in religious life from the ancient Near East to the modern West.

Credits: 3.

### REL 023 - Intro Rel:Bible

Study of religious expressions as exemplified in biblical and related texts.

Credits: 3.

### REL 027 - Integr Humanities

Study of religious and philosophical thought in Western culture from Hebraic and Greek antiquity to present. Prerequisites: Concurrent enrollment in Integrated Humanities Program, English 27, 28 and History 27, 28.

Credits: 3.

### REL 028 - Integrated Humanities

HST 028.

Credits: 3.

### REL 080 - Religion & Race in America

Historical survey of forms of African-American religion in

Credits: 3.

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**REL 095 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**REL 096 - Intro Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**REL 100 - Interpretation of Religion**

Examination of major theories and methods used in studying and interpreting religious phenomena. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 101 - Social Dimension Rel Life**

Comparative study of communal forms of religious life, such as cosmic state, monasticism, sect, caste and denomination, from a variety of cultures-Eastern, Western, tribal, and modern-with a concern for their meanings as fundamental forms of religious expression. Prerequisite: Three hours in Religion or Sociology.

Credits: 3.

**REL 104 - Mysticism, Shamanism & Possessn**

Comparative study of ways in which the inward dimension of religious life finds expression. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 108 - Myth, Symbol & Ritual**

Study of patterns and significance of myth and ritual as they appear in cross-cultural perspective, with reference to contemporary interpretations of symbol and language. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 109 - Ritualization:Rel,Body,Culture**

A cross-cultural examination of ritual strategies for integrating personal and social experience, with attention to various theories and types of religious ritual.

Prerequisite: Three hours in Religion.

Credits: 3.

**REL 111 - Western Religious Thought**

Study of ways in which Western religious thinkers-in both Greek and Biblical traditions-have expressed and responded to philosophical-theological questions about human existence, world, and God. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 114 - Hebrew Scriptures**

Study of the history and writings of the Hebraic-Judaic religion to the first century B.C. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 116 - Judaism**

Investigation of sustaining rituals, customs, institutions, and beliefs of normative Judaism. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 122 - Christian Origins**

Historical study of the first four centuries of Christianity in its sociocultural context, including consideration of New Testament texts. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 124 - Christianity**

Historical study of the Christian tradition examining major religious movements of early, medieval, and Reformation Christianity, and the spirituality of Christians during these periods. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 128 - Religion in America**

Study of the relationship between religion, the cultural ethos, and identity in America. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 130 - Islam**

Overview examining doctrines and practices of Muslims and their religious institutions from the rise of Islam to the present. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 131 - Studies in Hindu Tradition**

Selected writings, rituals, and developments in the Hindu tradition with reference to cultural assumptions of India. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 132 - Buddhist Traditions**

A survey of Buddhist beliefs and practices in a diversity of cultures, including some modern developments. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 141 - Religion in Japan**

An examination of Japanese values as expressed in folk, Shinto, and Buddhist traditions, and in social structures, aesthetic pursuits, or business practices. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 145 - Religion in China**

Examination of Classical, Confucian and Taoist thought through texts in translation, developments in these traditions, and interactions with folk religion and Buddhism in the premodern period. Prerequisite: Three hours in Religion.

Credits: 3.



**REL 168 - Contemporary Spiritual Life**

Study of human involvement with the spiritual as manifested in contemporary religious groups, or in modern theory and practice of meditation. Prerequisite: Three hours in Religion.

Credits: 3.

**REL 173 - Studies in Gender & Religion**

Selected topics focusing on the social and religious construction of gender and the shape of women's religious lives. Religious traditions studied vary by semester. Prerequisite: Three hours in Religion. May be repeated up to six hours.

Credits: 3.

**REL 180 - Moral&Rel Persp on Holocaust**

Instructor.

Credits: 3.

**REL 195 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.

**REL 196 - Intermediate Special Topics**

Intermediate courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-6.

**REL 197 - Readings & Research**

Variable credit.

Credits: 1-6.

**REL 198 - Readings & Research**

Variable credit.

Credits: 1-6.

**REL 201 - Senior Seminar**

Selected contemporary issues in theory and interpretation; preparation and presentation of individual senior projects. Prerequisites: Twelve hours in religion, including 100 and six hours at the intermediate level, senior standing.

Credits: 3.

**REL 214 - Studies in Judaica**

Selected topics of concentration emerging out of and related to the study of normative Judaism, e.g. the prophetic faith, Rabbinic Judaism, Hasidism, and Jewish mysticism. Prerequisite: Nine hours in religion, with three hours at the intermediate level (116 recommended). May be repeated up to six hours. (Not offered for graduate credit.)

Credits: 3.

**REL 224 - Studies in Christianity**

Examination of selected issues, movements, periods, or individuals within the Christian tradition. Prerequisites: Nine hours in religion (122, 124, or 173 recommended). May be repeated up to six hours. UG only.

Credits: 3.

**REL 226 - Studies in Hellenistic Rel**

Study of religion in the Mediterranean area during the period from the 4th century B.C. through the 4th century A.D. including Christian origins. Prerequisite: Nine hours in religion, with three hours at the intermediate level. (Not offered for graduate credit.)

Credits: 3.

**REL 228 - Studies in Western Rel Thought**

Important figures, issues, movements, or texts examined. Prerequisite: Nine hours in religion, with three hours at the intermediate level. May be repeated up to six hours. (Not offered for graduate credit.)

Credits: 3.

**REL 230 - Studies in Islam**

Topics varying by semester such as Women and Islam, Sufi (mystical) traditions, Shi'ite Islam, Islam and the West, and South Asian Muslim Cultures. Prerequisites: Nine hours in Religion, with three hours at the intermediate level (130 recommended). UG only.

Credits: 3.

**REL 234 - Buddhism in Sri Lanka**

An examination of Theravada Buddhist belief and practice in the context of Sri Lankan culture, with attention to lay and monastic interaction. Prerequisite: Nine hours in Religion with three hours at the intermediate level, or REL 132.

Credits: 3.

**REL 240 - Studies in Asian Religions**

Concentrated studies in the history, life, or thought of a selected Asian religious tradition. Prerequisite: Three hours in religion at intermediate level in the same religious traditions. UG only.

Credits: 3.

**REL 259 - Religion and Secular Culture**

Comparison of religious and secular systems of meaning, value, and practice. Prerequisite: Nine hours in religion, with three hours at the intermediate level. (Not offered for graduate credit.)

Credits: 3.

**REL 280 - Symbol & Archetype**

Study of the work of C.G. Jung and the Jungian circle as it bears upon the interpretation of religion and as it represents a 20th century religious quest.

Prerequisite: Nine hours in religion, with six hours at the intermediate level. (Not

offered for graduate credit.)

Credits: 3.

**REL 291 - Tpcs in Hist & Phenom of Rel**

Prerequisite: Nine hours in Religion, with six hours at the intermediate level; Junior standing. May be repeated up to six hours.

Credits: 1-6.

**REL 292 - Tpcs in Hist & Phenom of Rel**

Prerequisite: Nine hours in Religion, with six hours at the intermediate level; Junior standing. May be repeated up to six hours.

Credits: 1-6.

**REL 297 - Interdisciplinary Seminar**

Student-faculty workshop on a topic of current interest, employing resources from various disciplines. Prerequisites: Nine hours in religion, with six hours at the intermediate level, junior standing, instructor's permission. (Not offered for graduate credit.)

Credits: 3.

**REL 298 - Interdisciplinary Seminar**

Student-faculty workshop on a topic of current interest, Prerequisites: Nine hours in religion, with six hours at the intermediate level, junior standing, instructor's permission. (Not offered for graduate credit.)

Credits: 3.

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## Faculty for Religion Department

Erica Ruth Hurwitz Andrus

Lecturer of Religion

Appointed in [2002](#)

[Religion Department](#)

BA 1992 [Oberlin College](#)

MA 1995 [Wilfrid Laurier University](#)

PHD 2006 [University of California Santa Barbara](#)

[Search Courses for Erica Andrus](#)

Anne L. Clark

Professor of Religion

Appointed in [1988](#)

[Religion Department](#)

BA 1979 [College of Mount Saint Vincent](#)

MA 1981 [Columbia University](#)

PHD 1989 [Columbia University](#)

[Search Courses for Anne Clark](#)

Richard Ira Sugarman

Director of Integrated Humanities

Professor of Religion

Appointed in [1970](#)

[Dean's Office, College of Arts and Sciences](#)

[Religion Department](#)

BA 1966 [Yale University](#)

MA 1969 [Yale University](#)

PHD 1976 [Boston University](#)

Education

[Search Courses for Richard Sugarman](#)

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

Kevin M. Trainor  
Chairperson of Religion

Professor of Religion

Appointed in [1989](#)

[Religion Department](#)

BA 1974 [Colgate University](#)

MDIV 1981 [Union Theological Seminary](#)

PHD 1990 [Columbia University](#)

[Search Courses for Kevin Trainor](#)

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- Continuing

Colleges and Schools > College of Arts and Sciences > Departments and Programs > Romance Languages Department

## Romance Languages Department

### Contact Information

University of Vermont  
 Romance Languages Department  
 571 Waterman Building  
 85 South Prospect St  
 Burlington, VT 05405-0160

Phone: (802) 656-3196  
 Fax: (802) 656-5773  
 Email: [jaboyer@uvm.edu](mailto:jaboyer@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## Romance Languages Department: Academic Offerings

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## French (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three credits in French numbered FREN 100 or above of which fifteen credits must be at the 200-level. Required courses: [FREN 101](#) and [FREN 111](#) or [FREN 112](#). Literature requirement: twelve credits (including [FREN 111](#) or [FREN 112](#)). Culture requirements: three credits ([FREN 104](#), [FREN 105](#), [FREN 292](#) or [FREN 293](#)).

*Note:* Only three credits of Readings and Research ([FREN 197](#), [FREN 198](#)) and Advanced Readings and Research ([FREN 297](#), [FREN 298](#)) may be counted toward the major.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
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## French (Undergraduate Minor)

### Specific Requirements

Eighteen hours in French numbered FREN 100 or above. Required courses: [FREN 101](#); and three of the following four: [FREN 104](#), [FREN 105](#), [FREN 111](#), [FREN 112](#). Six of the 18 credits must be in courses at the 200-level. Readings and Research ([FREN 197](#), [FREN 198](#)) or Advanced Readings and Research ([FREN 297](#), [FREN 298](#)) may not be counted toward a minor.

### Affiliations

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## Italian (Undergraduate Minor)

### Specific Requirements

Eighteen hours in courses taught in the Italian language and numbered ITAL 100 or above. Readings and Research ([ITAL 197](#), [ITAL 198](#)) or Advanced Readings and Research ([ITAL 297](#), [ITAL 298](#)) may not be counted toward a minor.

### Affiliations

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## Italian Studies (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-three credit hours chosen from the categories below. Among the courses taught in English, no more than 12 credits may be applied from any one academic discipline. Students should consult with their Italian Advisor to assist in selecting a program of courses. Other equivalent courses may be accepted with permission of an Italian Advisor and the Chair of the Department of Romance Languages.

#### A. Courses in Italian

At least 15 credits in courses taught in Italian at the 100-level or above. One course in Readings and Research ([ITAL 197](#), [ITAL 198](#)) or Advanced Readings and Research ([ITAL 297](#), [ITAL 298](#)) may be applied to this category. A College Honors Thesis may be applied to this category if written in Italian.

#### B. Significant Italian content

Up to 18 credits from among the following courses: [ART 149](#), [ART 161](#), [ART 164](#), [ART 282](#) (if topic predominantly Italian); [CLAS 023](#), [CLAS 035](#), [CLAS 037](#), [CLAS 042](#), [CLAS 122](#); up to 6 credits of Latin language/literature any level; [ENGS 163](#) (♦Italian American Literature♦); [HST 125](#); [MU 128](#), [MU 228](#); [PHIL 105](#); [REL 124](#); [THE 150](#); [WLIT 13](#), [WLIT 113](#), [WLIT 122](#). A College Honors Thesis may be applied to this category if written in English.

#### C. Partial Italian content

Up to 9 credits from among the following courses: [ART 005](#), [ART 006](#), [ART 155](#) (Category B if predominantly Italian content); [CLAS 154](#), [CLAS 155](#), [CLAS 156](#); [GEOG 55](#), [GEOG 155](#); [HST 009](#), [HST 010](#), [HST 13/HST 014](#), [HST 024](#), [HST 025](#),

- Education [HST 026](#), [HST 127](#), [HST 130](#); [MU 111](#), [MU 112](#), [MU 205](#) (if some Italian content);
- Graduate College [POLS 141/POLS 142](#) (if some Italian content); [REL 122](#), [REL 173](#) (if topic pertinent to Italian culture), [REL 226](#).
  - Honors College

### Affiliations

- School of Business Administration
  - Colleges and Schools: [College of Arts and Sciences](#).
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## Italian Studies (Undergraduate Minor)

### Specific Requirements

Eighteen credit hours from the following categories:

- Courses in Italian: at least 6 credits in courses taught in Italian at the 100-level or above;
- Significant Italian content: up to 12 credits from among the courses listed under Category B in the description of the Italian Studies Major;
- Partial Italian content: up to 3 credits from among the courses listed under Category C in the description of the Italian Studies Major. Among the courses taught in English, no more than 6 credits may be applied from any one academic discipline.

### Affiliations

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## Spanish (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of thirty-three hours of courses numbered above SPAN 100\*, of which: twelve must be in literature and eighteen must be in courses numbered above 200\*. Required courses among those thirty-three hours: [SPAN 140](#); one 3-credit course in Latin-American literature ([SPAN 142](#), [SPAN 262](#), [SPAN 274](#), [SPAN 279](#), [SPAN 281](#), [SPAN 286](#), [SPAN 287](#) or Topics); one 3-credit course in Spanish Peninsular Literature ([SPAN 141](#), [SPAN 236](#), [SPAN 237](#), [SPAN 245](#), [SPAN 250](#), [SPAN 252](#), or Topics); one 3-credit course in culture and civilization ([SPAN 290](#), [SPAN 291](#), [SPAN 292](#), [SPAN 293](#), [SPAN 294](#) or [SPAN 299](#)). At least one of the literature courses taken must be a survey ([SPAN 141](#) or [SPAN 142](#)) and one must be devoted specifically to literature written before 1800 (Examples are [SPAN 236](#), [SPAN 237](#), [SPAN 245](#), [SPAN 287](#) or Topics on pre-1800 literature).

\*Only three credits of Readings and Research ([SPAN 197](#), [SPAN 198](#)) and Advanced Readings and Research ([SPAN 297](#), [SPAN 298](#)) may be counted toward the major.

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- Colleges and Schools:[College of Arts and Sciences](#).
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## Spanish (Undergraduate Minor)

### Specific Requirements

Eighteen hours in Spanish above SPAN 100, including: Language: six credits from [SPAN 101](#), [SPAN 201](#), [SPAN 202](#); Literature: six credits (3 of those credits must be in [SPAN 140](#)); Electives: six additional credits from courses numbered above [SPAN 202](#). Readings and Research ([SPAN 197](#), [SPAN 198](#)) or Advanced Readings and Research ([SPAN 297](#), [SPAN 298](#)) may not be counted toward a minor.

### Affiliations

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## Courses offered by the Romance Languages Department

### Courses in French

#### FREN 001 - Elementary I

Fundamentals of French composition, comprehension, pronunciation, speaking, reading, writing. Structure of the basic French sentence. No prior knowledge expected.

Credits: 4.

#### FREN 002 - Elementary II

Continuation of FREN 001. Prerequisite: FREN 001 or equivalent.

Credits: 4.

#### FREN 009 - Basic French Grammar Review

intermediate level. Considerable emphasis on written exercises.

Credits: 3.

#### FREN 051 - Intermed Rdg & Conversation I

Designed to help students move from a basic knowledge of French to the ability to read, speak, and understand French better. Some grammar review and short compositions. Prerequisite: FREN 002 or FREN 009 or equivalent.

Credits: 3.

#### FREN 052 - Intermed Rdg & Conversation II

Continues building on skills developed in FREN 051. Less stress on grammar review. Reading selections and compositions are longer and more sophisticated than in FREN 051. Prerequisite: FREN 051 or equivalent.

Credits: 3.



Education

**FREN 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

• Graduate College

• Honors College

**FREN 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

**FREN 101 - Writing Workshop**

Improvement of functional skills: writing, listening, and speaking. Development of techniques to explain, elaborate, support opinions, convince, and persuade in both writing and speaking. Prerequisite: FREN 052 or equivalent.

Credits: 3.

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Policies and General  
Information

**FREN 104 - Contemporary France**

Study of selected aspects of France today. Improvement of language skills; emphasis on reading, FREN 101. writing, and analysis of a variety of materials (literature, journalism, images). Pre/co-requisite:

Credits: 3.

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Faculty and  
Administration

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**FREN 105 - French Culture**

FREN 101.

Credits: 3.

**FREN 107 - Focus on Oral Expression**

Guided practice of oral-aural skills through vocabulary and pronunciation exercises, readings, and oral presentations. Writing exercises reinforce oral work. Prerequisite: FREN 052 or equivalent.

Credits: 3.

**FREN 111 - French Lit in Context I**

A study of significant texts in the history of French

Credits: 3.

**FREN 112 - French Lit in Context II**

Instructor permission only.

Credits: 3.

**FREN 195 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**FREN 196 - Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**FREN 197 - Readings & Research**

Permission of Chair required.

Credits: 1-6.

**FREN 198 - Readings & Research**

Permission of Chair required.

Credits: 1-6.

**FREN 201 - Adv Composition & Conversation**

Course activities (discussions, exposes, written work, etc.) designed to lead to mastery of French oral and written expression. Prerequisite: 101. (Not offered for graduate credit.)

Credits: 3.

**FREN 205 - Topics in Adv Lang Study**

Varied topics devoted to a special area such as translation, creative writing, French for the professions (medicine, business, journalism, law), etc. Prerequisites: 101. Not offered for graduate credit.

Credits: 3.

**FREN 209 - Advanced Grammar**

Comparative grammatical study centered on the specific problems encountered by Anglophones in written and spoken French. Prerequisite: 101. Not offered for graduate credit.

Credits: 3.

**FREN 235 - Medieval/Renaissance Studies**

Exploration of writing from Medieval/Renaissance France. Readings to include chivalric romances, heroic and comic epic, lyric poetry, tales by Marguerite de Navarre, essays by Montaigne. Prerequisites: 111 or 112.

Credits: 3.

**FREN 237 - Early French Women Writers**

Exploration of how women from the Middle Ages through the Revolution spoke of love, education, the place of women, the power of writing and more. Prerequisites: 111 or 112.

Credits: 3.

**FREN 247 - Power/Desire in Class Fr Drama**

How dramatists like Corneille, Moliere and Racine used history, legend and satire to explore questions of tyranny, freedom, passion, generosity, hypocrisy, truthfulness and more. Prerequisites: 111 or 112.

Credits: 3.

**FREN 256 - Enlightenment Society Reimagined**

How did 18C writers use the representation of social hierarchy, gender relations, the exotic, etc., to (re-)define French culture on the eve of the Revolution?

Prerequisites: 111 or 112.

Credits: 3.

**FREN 265 - Romanticism and Symbolism**

Exploration of the idealistic tradition in 19th century French poetry and novels.

Authors may include Constant, Chateaubriand, Stael, Hugo, Flaubert, Baudelaire,

Verlaine, Mallarme. Prerequisites:111 or 112.

Credits: 3.

**FREN 266 - Rev&React in 19th C Narrative**

period, such as power, class, money, and women. Representative authors: Balzac, Flaubert, Sand, Stendhal, Zola. Prerequisites: 111 or 112.

Credits: 3.

**FREN 269 - La Belle Epoque**

The aesthetic and moral dilemmas of the turn-of-the-century "decadent" period in French literature, focusing especially on the changing representation of the artist and intellectual. Prerequisites: 111 or 112.

Credits: 3.

**FREN 270 - Lyric Poetry:Harmony & Crisis**

A consideration of the French lyric tradition. Authors may include the troubadours, Ronsard, Dubellay, Hugo, Baudelaire , Mallarme, Rimbaud, Valery, Roubaud.

Prerequisites: 111 or 112.

Credits: 3.

**FREN 275 - Morality&ItsDiscontents-20C Lt**

20C French authors who challenge traditional notions of morality or advance new modes of philosophical thought and ethics. May include Colette, Gide, Malraux, Beauvoir, others. Prerequisites: 111 or 112.

Credits: 3.

**FREN 276 - Topics in Modern French Lit**

Selected topics dealing with poetry and/or narrative related either to an historical period or a literary movement. Prerequisites: 111 or 112.

Credits: 3.

**FREN 279 - Women's Autobiographies**

Prerequisite: 111 or 112. Study of several autobiographies written by contemporary French/Francophone women. Representative authors include Colette, de Beauvoir, Sarraute, Duras, Ernaux, Martin.

Credits: 3.

**FREN 280 - Francophone Crossings**

Study of works in French that demonstrate multiple cultural influences. Topics may include: exile writings, cultural/linguistic mixing, colonialism and independence movements, human rights, immigration. Prerequisites: 111 or 112.

Credits: 3.

**FREN 285 - Quebec Literature**

A study of contemporary (1960-1985) major works of fiction, poetry, and drama. Authors studied include Anne Hebert, Michel Tremblay, Jacques Godbout, Gaston Miron. Prerequisites: Either 111 or 112 or both.

Credits: 3.

**FREN 289 - African Lit: French Expression**

Study of West African poetry, theatre, novel, and civilization as an expression of the Black experience in the language of the French colonizer. Prerequisites: 111 or 112.

Credits: 3.

**FREN 292 - Topics in French Culture**

In-depth study of a major aspect of French culture. See Schedule of Courses for specific offering. Prerequisites: 104 or 105 or permission.

Credits: 3.

**FREN 293 - Quebec Culture**

Sociocultural study of the Francophone culture of Canada. Prerequisite: One 100-level French course.

Credits: 3.

**FREN 294 - Topics in French Cinema**

A topical approach to the study of French cinema and cinematographic aesthetics, from the medium's beginnings through contemporary films. Pre/co-requisites: 111 or 112.

Credits: 3.

**FREN 295 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.

**FREN 296 - Advanced Special Topics**

Advanced courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 3.

**FREN 297 - Advanced Readings & Research**

Permission of Chair required.

Credits: 1-6.

**FREN 298 - Advanced Readings & Research**

Permission of Chair required.

Credits: 1-6.

**FREN 391 - Master's Thesis Research**

Credits: 1-18.

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## Courses in Italian

**ITAL 001 - Elementary I**

Fundamentals of Italian composition, comprehension, pronunciation, speaking, reading, writing. Structure of the basic Italian sentence. No prior knowledge

expected.

Credits: 4.

**ITAL 002 - Elementary II**

Continuation of ITAL 001. Prerequisite: ITAL 001 or equivalent.

Credits: 4.

**ITAL 051 - Intermediate Rdg & Conv I**

Designed to help students move from a basic knowledge of Italian to the ability to read, speak, and understand Italian better. Some grammar review and short compositions. Prerequisite: ITAL 002 or equivalent.

Credits: 3.

**ITAL 052 - Intermediate Rdg & Conv II**

Continues building on the skills developed in ITAL 051. Less stress on grammar review. Reading selections and compositions are longer and more sophisticated than in ITAL 051. Prerequisite: ITAL 051 or equivalent.

Credits: 3.

**ITAL 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**ITAL 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**ITAL 121 - Issues in Italian Culture**

An introduction to the cultural realities of Italy, from politics to pop music, food to fashion. Emphasis on improving linguistic fluency. Prerequisite: ITAL 052 or equivalent.

Credits: 3.

**ITAL 122 - Italian Literature & Film**

A study of the multiple relationships between literary and cinematic texts and their role as a window on Italian culture. Emphasis on improving linguistic fluency. Prerequisite: ITAL 052 or equivalent.

Credits: 3.

**ITAL 157 - Modern Italian Fictions**

An introduction to Italian literature from the 18th century to today, with attention to art, music, cinema, and the Internet. Emphasis on improving linguistic fluency. Prerequisite: ITAL 052 or equivalent.

Credits: 3.

**ITAL 158 - Early Italian Lit in Context**

An introduction to Italian literature from its beginnings through the early-modern period. Authors may include Dante, Boccaccio, Machiavelli. Emphasis on improving linguistic fluency. Prerequisites: 52 or equivalent.

Credits: 3.

**ITAL 170 - Cultures of Women in Italy**

A study of Italian women writers, journalists, artists, and film directors. Emphasis on reading and discussion. Prerequisite: ITAL 052 or equivalent.

Credits: 3.

**ITAL 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**ITAL 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 3.

**ITAL 197 - Readings & Research**

Permission of Department Chair required.

Credits: 1-6.

**ITAL 198 - Readings & Research**

Permission of department chair required.

Credits: 1-6.

**ITAL 296 - Directed Readings**

Credits: 3.

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## Courses in Spanish

**SPAN 001 - Elementary I**

Fundamentals of Spanish composition, comprehension, pronunciation, speaking, reading, writing. Structure of the basic Spanish sentence. No prior knowledge expected.

Credits: 4.

**SPAN 002 - Elementary II**

Prerequisite: SPAN 001 or equivalent.

Credits: 4.

**SPAN 009 - Basic Spanish Grammar Review**

Thorough review of Spanish grammar in preparation for intermediate level. Considerable emphasis on written exercises.

Credits: 3.

**SPAN 051 - Intermediate Language Study I**

Significant review of grammar, proceeding from basic knowledge of Spanish to increased proficiency in understanding, speaking, reading and writing.

Compositions, oral practice, reading. Prerequisite: SPAN 002 or SPAN 009 or equivalent. Placement Exam; 2-3 years in high school; consultation.

Credits: 3.

**SPAN 052 - Intermediate Language Study II**

Continues building on the skills developed in SPAN 051. More emphasis on accurate language usage and more extensive readings. Prerequisite: SPAN 051 or equivalent. Placement Exam; 3-4 years in high school; consultation.

Credits: 3.

**SPAN 095 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-4.

**SPAN 096 - Introductory Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles.

Credits: 1-6.

**SPAN 101 - Composition & Conversation**

Writing practice, sentence structure, correct expression, and guided discussions in Spanish of assigned topics. A good command of basic grammar expected.

Prerequisite: SPAN 052 or Instructor permission.

Credits: 3.

**SPAN 105 - Phonetics & Phonology**

Prerequisite: SPAN 052 or Instructor permission. The sound system of Spanish: Spanish/English pronunciation contrasted; vowels, consonants, rhythms, intonation. Counts as major/minor elective, not for A&S language requirement.

Credits: 3.

**SPAN 109 - Spanish Grammar**

An intensive study of Spanish grammar. Topical approach. Prerequisite: SPAN 052 or Instructor permission.

Credits: 3.

**SPAN 140 - Analyzing Hispanic Literatures**

Introduction to basic genres of Hispanic literatures (narrative, poetry, drama, essay); development of analytical and critical reading/discussion skills. Short analytical papers and ample class discussion. Prerequisite: SPAN 101 or concurrent enrollment with Instructor permission.

Credits: 3.

**SPAN 141 - Intro To Literature of Spain**

An introductory survey of major developments in Spanish peninsular literature. Readings and discussions focus on textual analysis, and historical and cultural contexts. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 142 - Intro To Lit Spanish America**

Readings and discussion focus on textual analysis, and historical and cultural contexts. Pre/co-requisite: SPAN 140.

Credits: 3.

**SPAN 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 197 - Readings & Research**

Permission of chair required. Prerequisite: SPAN 140.

Credits: 1-6.

**SPAN 198 - Readings & Research**

Permission of Chair required. Prerequisite: SPAN 140.

Credits: 0-4.

**SPAN 201 - Adv Composition & Conversation**

supplemented by panel discussions, debates, translation, (Not offered for graduate credit). To improve both written and oral proficiency. Textbook and a weekly composition. Prerequisite:101 or permission.

Credits: 3.

**SPAN 202 - Topics in Spanish Lang Study**

Varied topics devoted to a special area such as translation, creative writing, Spanish for the professions (medicine, business, journalism, law), etc.

Prerequisite: 101 or permission.(Not offered for graduate credit).

Credits: 3.

**SPAN 211 - History of Spanish Language**

The evolution of the Spanish language from its origins to the present. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 236 - Poetic Voices/Cultural Change**

A topical approach to exploration of self and society in Spain's poetic voices before 1700. Verses range from humorous to amorous, from satirical to political.

Prerequisite: SPAN 140.

Credits: 3.

**SPAN 237 - Issues in Early Spanish Lit**

An exploration of topics on Spain's richly diverse literature written before 1700.

Prose and/or theatre texts from this highpoint of cultural development are the focus. Prerequisite: SPAN 140.

Credits: 3.



**SPAN 246 - Reading Cervantes**

A topical approach to the study of Cervantes, author of Don Quijote de la Mancha, and his works' significance as a reflection of/on Spain's literary-cultural landscape.

Prerequisite: SPAN 140.

Credits: 3.

**SPAN 250 - Dilemmas of Mdrnty in Span Lit**

How Spanish writers since the Enlightenment have responded to the changes accompanying the arrival of "modernity". Topics may include questions of identity, democracy, traditional beliefs. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 252 - Span Lit:Dictatorshp-Democracy**

Literature in Spain from the Franco dictatorship to the present. Topics to include censorship and dissidence, writing-in-exile, and contemporary trends.

Prerequisite: 140. UG only.

Credits: 3.

**SPAN 260 - Gender in Hispanic Literatures**

A topical exploration of how Hispanic women writers and literary representations of gender-related issues reflect, expand and question literary and cultural norms.

Prerequisite: SPAN 140.

Credits: 3.

**SPAN 261 - Hispanic Writing from Margins**

Exploration of writers and communities at the margins of mainstream Latin-America and/or Spanish culture. Topics may include indigenous, Afro-Hispanic, regionalist authors; testimonial literatures; censorship. Prerequisite: SPAN 140 .

Credits: 3.

**SPAN 264 - Border Literatures**

Introduction to border literatures of the Hispanic worlds. These texts partake of two or more cultural spheres, challenging traditional notions of linguistic, literary, cultural hegemony. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 274 - Latin-American Poetry**

A topical exploration of Latin-American poetry. Possibilities include the innovations of modernismo, recent hypertextual trends and more. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 279 - Act Out:Perf Cult'I Pol Lat Am**

performance and its political contexts. Emphasis is placed on works particularly concerned with reshaping culture, politics, and aesthetics. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 281 - Contemp Spanish-Amer Fiction**

A study of representative works by major authors tracing the development of

narrative forms from their roots in the last century to the present. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 286 - Writing Revolution-Latin Amer**

Topics may include early uprising against Spain, representation of revolutionary figures (Simon Bolivar, Pancho Villa, etc.), contemporary resistance to imperialism, among others. Prerequisite: 140.

Credits: 3.

**SPAN 287 - Early Span Narratives Americas**

Readings and analysis of late 15th and 16th century narratives. Discussion of European and Native American perspectives, religious disputes, and the "Leyenda Negra" (Black Legend). Prerequisite: SPAN 140.

Credits: 3.

**SPAN 290 - Hispanic Films in Context**

Prerequisite: SPAN 140. Approaching film as reflection and shaper of Hispanic cultures through comparison with texts relevant to cultural context. Includes study of film terminology and analysis.

Credits: 3.

**SPAN 291 - Early Cultures of Spain**

A study of the Spanish cultures from earliest times through 1700, emphasizing major intellectual, political, and artistic developments. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 292 - Modern Cultures of Spain**

A study of the cultures of Spain from the Enlightenment to the present, emphasizing the major intellectual, political, and artistic developments.

Prerequisite: SPAN 140.

Credits: 3.

**SPAN 293 - Early Latin-American Cultures**

A study of colonial Latin American cultures from pre-Hispanic times through Independence. Emphasis on major intellectual, artistic, and cultural developments.

Prerequisite: SPAN 140.

Credits: 3.

**SPAN 294 - Modern Latin-American Cultures**

An overview of the cultures of Latin America with a multidisciplinary approach to understanding cultural constructions. Themes included: the city, nationhood, subjectivity, marginality. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: SPAN 140.

Credits: 3.

**SPAN 297 - Advanced Readings & Research**

Permission of Chair required. Prerequisite: SPAN 140.

Credits: 1-6.

**SPAN 298 - Advanced Readings & Research**

Permission of Chair required. Prerequisite: SPAN 140.

Credits: 1-6.

**SPAN 299 - Topics in Hispanic Cultures**

Focus on a particular cultural topic in the Hispanic world. Study might emphasize regional studies, current conflicts on ecology, ethnicity, and gender. Prerequisite: SPAN 140.

Credits: 3.

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## Sociology Department

### Contact Information

University of Vermont  
 Sociology Department  
 Benedict House  
 31 South Prospect St  
 Burlington, VT 05405-0176

Phone: (802) 656-3236  
 Fax: (802) 656-2131  
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[Web Site](#)

### Affiliations

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## Gerontology (Undergraduate Minor)

### Specific Requirements

The minor in Gerontology consists of 18 credits. Required courses (12 credits): [SOC 020](#) (or [HDFS 020](#) or [NURS 020](#)), [SOC 120](#), [SOC 220](#), [SOC 222](#). Electives (six credits): [ANTH 189](#); [HDFS 266](#), [HDFS 283](#); [NURS 100](#); [SOC 154](#), [SOC 254](#).

Courses used to meet the requirements of the minor should constitute a coherent program and will be selected in consultation with the student's minor advisor. A list of current course offerings suitable for the minor, including special topics courses in individual departments, is available from the department of sociology or the Center for the Study of Aging.

Note: This minor cannot be the sole minor for sociology majors but is acceptable as a second minor, especially for students interested in careers involving work with the aged. Sociology majors who intend to complete a second minor in Gerontology should plan their course of study in close consultation with their advisor so as not to exceed the 45-hour rule and the limit of one course counting toward both a major and a minor.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).
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## Sociology (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Thirty-four hours in Sociology including [SOC 001](#); [SOC 100](#) and [SOC 101](#); three hours in each of three different areas at the 100-level (total nine hours); and three hours in each of the three different areas at the 200 level (total nine hours). It is recommended that 1, 100, and 101 be completed before the start of the junior year. 1 and 100, or 1 and 101, or instructor's permission is a prerequisite for enrollment in any 200-level course.

Students planning to focus in a particular area of study are strongly encouraged to take an additional 200-level course in that area. Students interested in completing the Social Gerontology concentration are encouraged to consult their faculty advisor early in their program. Students planning postgraduate training in Sociology or related areas are strongly encouraged to take at least two courses from the advanced Theory/Methods area ([SOC 274](#), [SOC 275](#), [SOC 279](#)). Areas and their approved courses are: Crime, Law, and Deviance: [SOC 115](#), [SOC 118](#), [SOC 214](#), [SOC 216](#), [SOC 217](#), [SOC 255](#), [SOC 258](#); Social Inequality: [SOC 119](#), [SOC 122](#), [SOC 132](#), [SOC 219](#), [SOC 232](#), [SOC 240](#), [SOC 254](#); Social Change and Development: [SOC 102](#), [SOC 103](#), [SOC 105](#), [SOC 171](#), [SOC 202](#), [SOC 203](#), [SOC 205](#), [SOC 206](#), [SOC 207](#), [SOC 211](#), [SOC 213](#), [SOC 272](#); Culture, Institutions, and the Individual: [SOC 109](#), [SOC 128](#), [SOC 145](#), [SOC 150](#), [SOC 151](#), [SOC 155](#), [SOC 161](#), [SOC 209](#), [SOC 225](#), [SOC 243](#), [SOC 250](#), [SOC 252](#), [SOC 255](#), [SOC 288](#), [SOC 289](#); The Life Course: [SOC 120](#), [SOC 128](#), [SOC 145](#), [SOC 154](#), [SOC 161](#), [SOC 222](#), [SOC 223](#), [SOC 229](#); Theory and Methods: [SOC 274](#), [SOC 275](#), [SOC 279](#).

The Department of Sociology offers an optional twelve-hour concentration in Social



- Education
- Gerontology including [SOC 20](#) and [SOC 120](#); either [SOC 220](#) or [SOC 222](#); and at least one course from [SOC 154](#), [SOC 254](#), or [SOC 255](#).
- Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources
- \*Courses numbered [SOC 195](#), [SOC 196](#), [SOC 281](#), [SOC 282](#), [SOC 295](#), or [SOC 296](#) may qualify to fulfill area requirements with approval of the student's advisor.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Sociology Department](#).

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Sociology Department > Academic Offerings > Sociology (Minor)

## Sociology (Undergraduate Minor)

### Specific Requirements

Eighteen hours in sociology including [SOC 001](#); either [SOC 100](#) or [SOC 101](#); three hours in each of two different areas at the 100-level (total six hours); three hours at the 200-level (total three hours). (See Sociology major requirements for list of approved area options.) It is recommended that [SOC 001](#) and [SOC 100](#) or [SOC 001](#) and [SOC 101](#) be completed before the start of the junior year, [SOC 1](#) and [SOC 100](#), or [SOC 001](#) and [SOC 101](#), or instructor's permission, is a prerequisite for enrollment in any 200-level course.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).
- Departments and Programs:[Sociology Department](#).

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Sociology Department > Courses

## Courses in Sociology

### SOC 001 - Introduction to Sociology

Fundamental principles and problems in the sociological analysis of the structure and dynamics of modern society.

Credits: 3.

### SOC 011 - Social Problems

Introduction to sociology through detailed examination of a selected number of major structural problems characteristic of contemporary societies. Problems treated may vary.

Credits: 3.

### SOC 014 - Deviance & Social Control

Analysis of the causes and consequences of social behavior that violates norms. Examines patterns of deviant socialization and social organization and forms of deviance control.

Credits: 3.

### SOC 019 - Race Relations in the US

Analysis of racial prejudice, discrimination, and other dominant group practices directed toward Native, Asian-, and African-Americans and their social movements for integration, accommodation, and separatism.

Credits: 3.

### SOC 020 - Aging: Change & Adaptation

Individual and social meanings of aging and old age; physical, physiological, psychological, and sociological changes accompanying aging; individual, family, community, and societal adaptations to aging. Crosslists: Nursing 20 and Early Childhood and Human Development 20/Education.

Credits: 3.

Education

- Graduate College
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• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

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### **SOC 029 - Sex, Marriage & Family**

Description and analysis of contemporary patterns in American sexual, marital, and familial behavior; their historical development, variants, and the evolving alternatives to traditional normative forms.

Credits: 3.

### **SOC 032 - Social Inequality**

Introduction to structured class inequality in the U.S., causes and consequences. Focus on wealth, prestige, and power. Inequalities of age, gender, and ethnicity also examined.

Credits: 3.

### **SOC 043 - Survey of Mass Communication**

The historical development of the socioeconomic, political, educational, and religious impacts of the press, film, radio, and television in American society.

Credits: 3.

### **SOC 057 - Drugs & Society**

Patterns of illicit drug distribution, use, abuse, and control in contemporary society. Examines the interaction of cultural, social, psychological, and physiological factors in prohibited drug-taking.

Credits: 3.

### **SOC 095 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

### **SOC 096 - Introductory Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

### **SOC 100 - Fund of Social Research**

Introduction to research methods in social science. Includes examination of research design, measurement, data collection, data analysis, and the presentation and theoretical interpretation of research findings. Prerequisite: Three hours of sociology or six hours in a related social science. Crosslist: Political Science 181.

Credits: 4.

### **SOC 101 - Developm't Sociological Theory**

intensive. Prerequisites: Six hours of Sociology or equivalent preparation in another social science with Instructor permission.

Credits: 3.

### **SOC 102 - Population, Environment & Soc**

Analysis of the causes and consequences of varying relationships among population size, distribution and composition, social organization, technology, and resource base. Prerequisite: Three hours of Sociology.

Credits: 3.

**SOC 103 - Environ Crises Modern Society**

Examines global, national, and local ecological crises both empirically and theoretically. Emphasis on economic processes, political/legal aspects, and social activism. Prerequisite: Three hours of Sociology.

Credits: 3.

**SOC 105 - The Community**

Comparative examination of patterns of social interaction in social groups with common territorial bases in contemporary societies and the analysis of community structure and dynamics. Prerequisite: Three hours of Sociology.

Credits: 3.

**SOC 109 - The Self & Social Interaction**

Analysis of the roles of sociocultural and situational factors in individual behavior and experience and the social genesis, development, and functioning of human personality. Prerequisite: Three hours of Sociology or PSYC 001.

Credits: 3.

**SOC 115 - Crime**

Analysis of the nature and types of behavior that violates law, the mechanisms for defining such behaviors as criminal and their causes and consequences.

Prerequisite: Three hours of Sociology.

Credits: 3.

**SOC 118 - Race, Crime&Criminal Justice**

A comprehensive examination of race, gender, and class on racial minorities' participation in criminal activities and how individuals are treated by the criminal justice system. Prerequisite: Three hours of Sociology.

Credits: 3.

**SOC 119 - Race & Ethnicity**

Description and analysis of ethnic, racial, and religious groups in the U.S.

Examination of social/cultural patterns in the larger society and in these groups themselves. Prerequisite: Three hours of Sociology. Cross-listed with: ANTH 187.

Credits: 3.

**SOC 120 - Aging in Modern Society**

Analysis of contemporary needs and problems of the elderly, including discrimination, poverty, health care, and loneliness, and the evaluation of services and programs for the elderly. Prerequisite: Three hours of Sociology or professional experience working with the elderly.

Credits: 3.

**SOC 122 - Women & Society**

Crosslist: WGST 101.

Credits: 3.

**SOC 128 - Sociology of Childhood**

Examination of socio-historical changes in the construction of childhood and experiences of children; applications of interpretive approaches in contemporary sociology to analyze children's peer cultures. Prerequisites: three hours  
Credits: 3.

**SOC 130 - Sociology of Heterosexuality**

Examination of heterosexuality as cultural production with attention to how heterosexuality works along side other Pre/co-requisites: Three hours of Sociology, preferably Sociology 1 or WST 73 or 75. Crosslist: WGST 130.  
Credits: 3.

**SOC 132 - Affluence & Poverty in Mod Soc**

Examination of structured social inequality in contemporary American society with special attention to the distribution of wealth and its relationship to power, prestige, and opportunity. Prerequisite: Three hours of Sociology.  
Credits: 3.

**SOC 145 - Youth and Popular Culture**

of children's popular culture, its sociocultural significance, and children's perspectives on various cultural forms. Prerequisites: three hours of Sociology.  
Credits: 3.

**SOC 150 - Popular Culture**

Analysis of social significance of a selected range of contemporary non-elite cultural forms in the U.S., such as rock music, television programming, and popular literature. Prerequisite: Three hours of Sociology.  
Credits: 3.

**SOC 151 - Sociology of Religion&Ideology**

cross-cultural and historical perspective. Prerequisites: Beliefs and value systems and their institutional arrangements, focusing on relationships between these systems and the larger social structure, in Three hours of Sociology or six hours of Religion.  
Credits: 3.

**SOC 154 - Social Org of Death & Dying**

Comparative examination of sociocultural adaptations to mortality with special attention to family, medical, legal, religious, and economic responses to fatal illness and death in contemporary society. Prerequisite: Three hours of Sociology.  
Credits: 3.

**SOC 155 - Culture, Health and Healing**

Introduction to medical anthropology. Social and cultural perspectives on health and illness experiences, doctor-patient interactions, healing practices, and access to health and health care. Prerequisite: three hours of  
Credits: 3.

**SOC 161 - Sociology of Leisure**

Analysis of the sociocultural organization of nonwork activity, emphasizing the

relationships of class, life style, education, and work to contemporary recreation and leisure use patterns. Prerequisite: Three hours of Sociology.

Credits: 3.

**SOC 171 - Soc Chng&Dev Persp in 3rd Wrld**

perspectives on development in the Third World. Prerequisite: Three hours in sociology.

Credits: 3.

**SOC 195 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-6.

**SOC 196 - Intermediate Special Topics**

See Schedule of Courses for specific titles.

Credits: 1-3.

**SOC 197 - Readings & Research**

Credits: 1-6.

**SOC 198 - Readings & Research**

Credits: 1-6.

**SOC 202 - Population Dynamics**

Analysis of the factors affecting human population growth and distribution, migration patterns, and the relationship between economic activity and population trends. Prerequisite: Six hours of Sociology including PSYC 001 and PSYC 100, or PSYC 001 and PSYC 101, or Instructor permission.

Credits: 3.

**SOC 203 - Adv Environmental Sociology**

and individual research projects. Prerequisite: Six hours Examination of theoretical interpretations of environmental problems, sources, and solutions, focusing on the social conditions under which problems arise. Emphasis on writing of sociology including 1 and 100, or 1 and 101, or instructor permission. (not offered for Graduate credit)

Credits: 3.

**SOC 205 - Rural Communities in Mod Soc**

Cross-listed with:CDAE 205

Credits: 3.

**SOC 206 - Urban Communities in Mod Soc**

The changing structure and dynamics of urban social organization in context of modernization and urbanization. Emphasis on cities and metropolitan areas in the U.S. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 207 - Community Org & Development**

Communities as changing sociocultural organizational complexes within modern society. Special attention given to change strategies. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission. Cross-listed with: CDAE 218.

Credits: 3.

**SOC 209 - Small Groups**

001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 211 - Soc Movements&Collective Behav**

Examination of origins, development, structure, and consequences of crowds, riots, crazes, rumors, panics, and political and religious movements and their relationships to cultural and social change. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 213 - Women in Dev in 3rd World**

An examination of the meaning and measurement of development, sociodemographic characteristics, sex stratification, and effects of Colonialism and Westernization on women's issues in the third world. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission. Cross-listed with: WGST 205.

Credits: 3.

**SOC 214 - Delinquency**

Analysis of the nature and type of juvenile behavior that violates law, the mechanisms for defining such behaviors as delinquent, and their causes and consequences. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 216 - Criminal Justice**

Analysis of the social structures and processes involved in the identification and labeling of individuals as criminal offenders: criminal law, its enforcement and the courts. Prerequisite: Six hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.

**SOC 217 - Corrections**

Analysis of the social structures and processes involved with individuals designated as offenders of criminal law: probation, prison, parole, and programs of prevention and rehabilitation. Prerequisite: Six hours of Sociology, including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.



**SOC 219 - Race Relations**

Examination of American racial subordination in social and historical perspective. Analysis of interracial contacts, racial subcultures and social structures, and responses to racial prejudice and discrimination. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 220 - Internship in Gerontology**

1 and 101 or instructor permission or Supervised service or research internship integrating theoretical and practical gerontological issues. Prerequisites: 6 hours of Sociology including 1 and 100, or preparation (Not offered for graduate credit.)

Credits: 3.

**SOC 222 - Aging & Ethical Issues**

Analysis of selected ethical issues posed by an aging society and faced by older persons, their families, health care and service providers, and researchers.

Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 223 - Sociology of Reproduction**

Examines reproduction of cultural values in relation to social conduct of reproduction of human life (childbearing) under advanced capitalism. Prerequisite: Six hours of Sociology to include one of 29, 122, or 229. Crosslist: WGST 201. (not for Graduate credit)

Credits: 3.

**SOC 225 - Organizations in Mod Society**

Examination of basic classical and contemporary theory and research on the human relations, internal structures, environments, types, and general properties of complex organizations and bureaucracies. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 229 - Family as Social Institution**

Examination of the institution of the American family in cross-cultural and historical perspective. Theories and research on family continuity, change, and institutional relationships explored. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 232 - Social Class & Mobility**

Comparative and historical analysis of causes, forms, and consequences of structured social inequality in societies. Examination of selected problems in contemporary stratification theory and research. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or

Instructor permission.

Credits: 3.

**SOC 240 - Political Sociology**

Examination of the social organizations of power and authority in modern societies and the dynamics and institutional relationships of political institutions, interest groups, parties, and publics. Prerequisite: Six hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.

**SOC 243 - Mass Media in Modern Society**

Intensive examination of selected topics in the structure of media organizations and their relationships to and impacts upon the major institutions and publics of contemporary issues. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 250 - Sociology of Culture**

The relations of cultural forms and subjective experience to social structure and power; in-depth applications of interpretive approaches in contemporary sociology. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 252 - Sociology of Emotions**

SOC 001 and SOC 100, or

Credits: 3.

**SOC 254 - Sociology of Health & Medicine**

Instructor permission.

Credits: 3.

**SOC 255 - Soc of Mental Health**

Analysis of the social structures and processes involved in the identification, definition, and treatment of mental illness and its sociocultural etiology and consequences. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 258 - Sociology of Law**

Analysis of the sociocultural structure of the legal institution and its relationships to other institutions: the social organization of the legal profession, lawmaking, and the courts. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 272 - Soc of African Societies**

Current social, cultural, political, and economic changes occurring in African societies, including issues of development, the state and civil society, social class,

ethnonationalism, and democratization. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 274 - Research Seminar**

Principles of research design, data gathering, ethics, measurement, data analysis, and data presentation. Students will complete a research project. Prerequisites: 6 hours of Sociology including 1 and 100, or 1 and 101, or

Credits: 3.

**SOC 275 - Meth of Data Anyl in Soc Rsch**

Quantitative analysis of sociological data; includes table, regression, and path analysis, scaling and factor analysis, and the analysis of variance emphasizing multivariate techniques. Prerequisite: 6 hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.

**SOC 279 - Contemporary Sociological Thry**

Critical examination of contemporary functional, conflict, exchange, interactionist, and structural theoretical approaches. A number of other theoretical approaches selected by seminar participants also examined. Prerequisite: 6 hours of Sociology including 1 and 100, or 1 and 101, or instructor permission.

Credits: 3.

**SOC 281 - Seminar**

Presentation and discussion of advanced problems in sociological analysis.

Prerequisite: Twelve hours of Sociology; Instructor permission.

Credits: 3.

**SOC 282 - Seminar**

Presentation and discussion of advanced problems in sociological analysis.

Prerequisite: Twelve hours of

Credits: 3.

**SOC 285 - Internship**

Prerequisite: Twelve hours of sociology including at least one 200-level course in substantive area relevant to field placement, departmental permission. UG only.

Credits: 1-6.

**SOC 286 - Internship**

Prerequisite: Twelve hours of sociology including at least one 200-level course in substantive area relevant to field placement, departmental permission. UG only.

Credits: 1-6.

**SOC 288 - Rsch Meth Teaching Sociology**

The development and evaluation of the teaching of sociology. Prerequisite: Twelve hours of Sociology; permission of Department. Open only to students who serve concurrently as teaching assistants in the Department.

Credits: 3.

**SOC 289 - Rsch Meth Teaching Sociology**

The development and evaluation of the teaching of sociology. Prerequisite: Twelve hours of Sociology; permission of Department. Open only to students who serve concurrently as teaching assistants in the Department.

Credits: 3.

**SOC 295 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 100, or Instructor permission.

Credits: 3.

**SOC 296 - Advanced Special Topics**

See Schedule of Courses for specific titles. Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 3.

**SOC 297 - Readings & Research**

Prerequisite: Six hours of Sociology including SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 1-6.

**SOC 298 - Readings & Research**

Prerequisite: Six hours of Sociology included SOC 001 and SOC 100, or SOC 001 and SOC 101, or Instructor permission.

Credits: 1-6.

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- Continuing

## Faculty for Sociology Department

D. Brookes Cowan

Senior Lecturer of Sociology

Appointed in [1983](#)

[Sociology Department](#)

BA 1971 [Randolph-Macon College](#)

MA 1974 [University of North Carolina](#)

PHD 1976 [University of North Carolina](#)

[Search Courses for D. Cowan](#)

Nicholas Louis Danigelis

Professor of Sociology

Appointed in [1975](#)

[Sociology Department](#)

BA 1968 [University of Vermont](#)

MA 1970 [Indiana University Bloomington](#)

PHD 1973 [Indiana University Bloomington](#)

[Search Courses for Nicholas Danigelis](#)

Moustapha Diouf

Associate Professor of Sociology

Appointed in [1989](#)

[Sociology Department](#)

BA 1979 [University of Paris](#)

MA 1981 [University of Paris](#)

MA 1985 [University of Missouri Columbia](#)

PHD 1989 [University of Missouri Columbia](#)

[Search Courses for Moustapha Diouf](#)

Education

- Graduate College  
Alice Fothergill
- Honors College  
Associate Professor of Sociology  
Appointed in [2003](#)  
[Sociology Department](#)
- School of Business Administration  
BA 1989 [University of Vermont](#)  
PHD 2001 [University of Colorado Boulder](#)  
[Search Courses for Alice Fothergill](#)
- The Rubenstein School of Environment and Natural Resources

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Kathryn Joan Fox  
Associate Professor of Sociology  
Appointed in [1994](#)  
[Sociology Department](#)  
BA 1985 [University of Tulsa](#)  
MA 1989 [University of California Berkeley](#)  
PHD 1994 [University of California Berkeley](#)  
[Search Courses for Kathryn Fox](#)

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Jennifer L. Green  
Lecturer of Sociology  
Appointed in [2009](#)  
[Sociology Department](#)  
BA 1984 [University of Colorado Boulder](#)  
MPA 1990 [Columbia Business School](#)  
PHD 2005 [American University](#)  
[Search Courses for Jennifer Green](#)

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Jeffrey P. Haig  
Senior Lecturer of Sociology  
Appointed in [2001](#)  
[Sociology Department](#)  
BA 1981 [Manchester University](#)  
MA 1983 [Yale University](#)  
[Search Courses for Jeffrey Haig](#)

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Dale J. Jaffe  
Professor of Sociology  
Appointed in [2005](#)  
[Sociology Department](#)  
BA 1973 [Washington University in St Louis](#)  
MA 1976 [University of Chicago](#)  
PHD 1986 [University of Chicago](#)

[Search Courses for Dale Jaffe](#)

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Lutz F. Kaelber  
Associate Professor of Sociology  
Appointed in [2000](#)  
[Sociology Department](#)  
MA 1988 [University of Mannheim](#)  
MA 1989 [University of Mannheim](#)  
PHD 1996 [Indiana University Bloomington](#)  
[Search Courses for Lutz Kaelber](#)

---

Daniel Harry Krymkowski  
Professor of Sociology  
Appointed in [1991](#)  
[Sociology Department](#)  
BS 1980 [University of Wisconsin Madison](#)  
MS 1982 [University of Wisconsin Madison](#)  
PHD 1986 [University of Wisconsin Madison](#)  
[Search Courses for Daniel Krymkowski](#)

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Thomas E. Macias  
Associate Professor of Sociology  
Appointed in [2003](#)  
[Sociology Department](#)  
BA 1990 [Arizona State University](#)  
MA 1997 [University of New Mexico](#)  
PHD 2002 [University of Wisconsin Madison](#)  
[Search Courses for Thomas Macias](#)

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H. Gilman McCann  
Associate Professor of Sociology Emeritus  
Appointed in [1974](#)  
[Sociology Department](#)  
BA 1964 [Allegheny College](#)  
MA 1966 [Princeton University](#)  
PHD 1974 [Princeton University](#)  
[Search Courses for H. McCann](#)

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Eleanor M. Miller  
Professor of Sociology  
Appointed in [2005](#)  
[Sociology Department](#)  
AB 1970 [Emmanuel College](#)

AM 1979 [University of Chicago](#)  
PHD 1984 [University of Chicago](#)  
[Search Courses for Eleanor Miller](#)

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Beth Mintz  
Professor of Sociology  
Appointed in [1977](#)  
[Sociology Department](#)  
BA 1970 [CUNY City College](#)  
MA 1974 [SUNY Stony Brook](#)  
PHD 1978 [SUNY Albany](#)  
[Search Courses for Beth Mintz](#)

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Thomas George Streeter  
Chairperson of Sociology  
Professor of Sociology  
Appointed in [1989](#)  
[Sociology Department](#)  
AB 1977 [Brown University](#)  
MA 1982 [University of Illinois Urbana-Champaign](#)  
PHD 1986 [University of Illinois Urbana-Champaign](#)  
[Search Courses for Thomas Streeter](#)

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Jennifer Anne Strickler  
Associate Professor of Sociology  
Appointed in [1993](#)  
[Sociology Department](#)  
BA 1984 [University of Vermont](#)  
MA 1990 [Princeton University](#)  
PHD 1993 [Princeton University](#)  
[Search Courses for Jennifer Strickler](#)

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## Theatre Department

### Contact Information

University of Vermont  
 Theatre Department  
 Royall Tyler Theatre  
 116 University Place  
 Burlington, VT 05405-0102

Phone: (802) 656-2094  
 Fax: (802) 656-0349  
 Email: [theatre@uvm.edu](mailto:theatre@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#).

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## Speech (Undergraduate Minor)

### Specific Requirements

Eighteen hours to include 12 hours from Speech [SPCH 011](#), [SPCH 111](#), [SPCH 112](#), [SPCH 283-4](#) or Theatre [THE 005](#); and six hours from Speech [SPCH 214](#) or [SPCH 283-4](#), or Sociology [SOC 141](#).

### Affiliations

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## Theatre (Bachelor of Arts)

### General Requirements

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- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A total of 48 hours to include [THE 010](#), [THE 020](#), [THE 030](#), [THE 040](#), [THE 050](#), [THE 110](#); one of the following three: [THE 120](#), [THE 130](#) or [THE 140](#); [THE 150](#), [THE 151](#), [THE 250](#), [THE 251](#); three hours in THE 190: Theatre Practicum; nine hours in selected area of emphasis: Design/Tech; or Performance; or History/Criticism. Design/Tech: [THE 041](#), [THE 042](#), [THE 120](#), [THE 130](#), [THE 131](#), [THE 140](#), [THE 141](#), [THE 142](#), [THE 143](#), [THE 144](#), [THE 160](#), [THE 200](#), [THE 230](#); Performance: [THE 111](#), [THE 112](#), [THE 200](#), [THE 210](#); History/Criticism: nine hours from [ENGS 135](#), [ENGS 136](#), [ENGS 165](#); [CLAS 153](#); [THE 200](#); or other courses by departmental permission.

Note: Students entering the College of Arts and Sciences should be advised that Theatre 001 is not recommended for students intending to major or minor in Theatre. Those students should enroll in required courses immediately. If Theatre 001 is taken, it will not be counted toward the required 48 hours for the major but will be counted toward the total 122 hours required for graduation.

### Affiliations

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## Theatre (Undergraduate Minor)

### Specific Requirements

Theatre [THE 050](#), [THE 150](#); two courses from [THE 010](#), [THE 020](#), [THE 030](#), [THE 040](#); two additional 3 credit courses above level 100.

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## Courses offered by the Theatre Department

### Courses in Speech

#### SPCH 011 - Effective Speaking

Fundamentals course in effective, informative, and persuasive public speaking and critical listening. Includes theory and practice.

Credits: 3.

#### SPCH 095 - Special Topics

See Schedule of Courses for specific titles. Credits: 1-3. Fall only.

Credits: 1-3.

#### SPCH 096 - Special Topics

See Schedule of Courses for specific titles. Credits: 1-3. Spring only.

Credits: 1-3.

#### SPCH 111 - Persuasion

Human motivation, attitudes, emotion, stereotypes, attention and audience psychology as applied in the speaking situation. Prerequisite: SPCH 011.

Credits: 3.

#### SPCH 112 - Argument & Decision

Inductive, deductive, causal, and analogical reasoning as applied to the speaking situation. Prerequisite: SPCH 011.

Credits: 3.

#### SPCH 214 - Issues in Public Address

Each semester emphasizes analysis of specific speakers, movements, theses, and strategies encompassed by a selected topic of public address. Prerequisite:

Nine hours of related courses, of which three must be at the 100 level.

Education

Credits: 3.

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

### **SPCH 283 - Seminar**

Seminar topics include: Nonverbal Communication, Rhetorical Criticism, Advanced Argumentation, Advanced Persuasion, Debate, Interpersonal Communication in Group Interaction, Communication in Conflict Management. Prerequisite: Six hours of speech, of which at least three hours must be at the 100 level. Credits: 3. Fall only.

Credits: 3.

### **SPCH 284 - Seminar**

Seminar topics include: Nonverbal Communication, Rhetorical Criticism, Advanced Argumentation, Advanced Persuasion, Debate, Interpersonal Communication in Group Interaction, Communication in Conflict Management. Prerequisite: Six hours of speech, of which at least three hours must be at the 100 level. Credits: 3. Spring only.

Credits: 3.

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## **Courses in Theatre**

### **THE 001 - Introduction to Theatre**

Overview of general theatre practices and theories, emphasizing history, script analysis, character development, and communicative skills directed toward a modern audience.

Credits: 3.

### **THE 005 - Oral Interpretation of Lit**

Performance of literature that is traditionally non-dramatic. Offered Summer Session only.

Credits: 3.

### **THE 010 - Acting I: Intro to Acting**

Exercises to increase self-awareness and heighten perceptions of human behavior. Basics of script analysis and development of vocal and physical skills through practice and performance.

Credits: 3.

### **THE 020 - Fundamentals of Lighting**

Primary course in the area of stage lighting design and execution.

Credits: 4.

### **THE 030 - Fundamentals of Scenery**

A hands-on introduction to the theory and practical application of the scenic elements involved in play production (drawing, building, and painting techniques).

Credits: 4.

### **THE 040 - Fundamentals of Costuming**

Primary course in area of costume design and construction. Fall only.

Credits: 4.

**THE 041 - History of Costume**

(Same as Community Development and Applied Economics 117 and Women's & Gender Studies 78.) Overview of period costume and its adaptation for the stage. Alternating Fall semesters.

Credits: 3.

**THE 042 - Fund Theatrical Make-up**

Focus on the development of drawing, painting, and sculpture skills as they relate to the creation of a dramatic character for the stage. Prerequisite: 40. Alternating Fall semesters.

Credits: 3.

**THE 050 - Dramatic Analysis**

Examination of structural characteristics of the basic forms and styles of drama and the manner in which they affect theatrical representation. Fall only.

Credits: 3.

**THE 095 - Special Topics**

Credits: 1-3. Fall only.

Credits: 1-3.

**THE 096 - Special Topics**

Credits: 1-3.

**THE 110 - Acting II:Contmp Scene Study**

Continuation of Acting I. Development of acting techniques through intensive scene work: refining script analysis and performance skills using contemporary scenes. Prerequisites: 10, permission for non-theatre majors and minors.

Credits: 3.

**THE 111 - Acting III:Voice & Speech**

Study of the basics of voice production and Standard American Speech; exercises and practice focusing on freeing the voice and developing good vocal habits.

Prerequisites: 10 or permission for non-theatre majors and minors. Spring only.

Credits: 3.

**THE 112 - Acting IV: Stage Movement**

Development of physical freedom and articulate physical expression through techniques promoting relaxation, flexibility, strength, creative spontaneity, and purposeful movement. Techniques applied to short movement performances.

Prerequisite: 10, or permission for non-theatre majors and minors. Fall only.

Credits: 3.

**THE 120 - Lighting Design**

Explores, through classroom instruction and projects, the development of lighting designs for a variety of live performance situations. Prerequisite: THE 020. Fall only.



Credits: 3.

**THE 130 - Scene Design**

A practical application of the elements, principles, and styles of theatrical stage design through research, sketching, and rendering techniques. Prerequisite: THE 030. Spring only.

Credits: 3.

**THE 131 - Scene Painting Concepts&Appl**

Lab course to study practical application of painting technique used in theatre, trompe l'oeil. Develops skills introduced in 30. Prerequisites: 30, 130, and either 20 or 40. Alternating Fall only.

Credits: 3.

**THE 140 - Costume Design**

Elements, principles, and styles of design applied to the visual creation of a dramatic character. Prerequisites: THE 040, with THE 041 highly recommended. Spring only.

Credits: 3.

**THE 141 - Adv Costume:Draping&Flat Pattn**

Explores the methods of creating period shapes. Students develop a sloper, fit it to a human body, create a researched and completed period costume. Prerequisite: 40. Spring, every fourth year. Alternating Spring only.

Credits: 3.

**THE 142 - Adv Cost Const:Per Undrgarmts**

Focuses on techniques for creating artificial understructures that support period silhouettes. Corsets, hoop skirts, petticoats, etc., are researched, fit on the human body, and constructed. Prerequisite: 40. Spring only.

Credits: 3.

**THE 143 - Adv Costume Constr:Millinery**

Explores methods of hat construction, including work in various media. Methods of shaping, covering, and trimming are researched, leading to the completion of hats. Prerequisites: 40. Spring only.

Credits: 3.

**THE 144 - Adv Costume Constr:Tailoring**

Explores traditional methods of tailoring as well as practical adaptations for the stage. Research, discussion, and demonstration lead to completion of a period suit. Prerequisite: 40. Spring only.

Credits: 3.

**THE 150 - Hist I:Class/Med/Ren Thtr**

A study of the theatrical rituals of Greece, Rome, and the Middle Ages leading to the reinvention of theatre in Renaissance Italy, England, and Spain. Prerequisites: 50 or English 95, Dramatic Analysis. Spring only.

Credits: 3.

**THE 151 - Hst II:Ren France-20C Eur&USA**

A study of the historical context, theatrical conventions, and the plays representations of Neoclassicism, Romanticism, Realism, and the revolts against Realism. Prerequisite: 150. Fall only.

Credits: 3.

**THE 160 - Stage Management**

Theory and practice for stage managing in the non-commercial theatre.

Prerequisites: 10; two of 20, 30, 40, 50. Spring only.

Credits: 3.

**THE 190 - Theatre Practicum**

Students actively involved in current department productions may earn credit for work on stage or backstage. Project proposals must be approved by department faculty and be of significant scope to qualify for credit. Prerequisite: Variable, see department chair or advisors.

Credits: .5-3.

**THE 195 - Special Topics**

See Schedule of Courses for specific titles. Credits: 1-3. Fall only.

Credits: 1-3.

**THE 196 - Special Topics**

See Schedule of Courses for specific titles. Credits: 1-3. Spring only.

Credits: 1-3.

**THE 197 - Readings & Research**

Credits: .5-9.

**THE 198 - Readings & Research**

Credits: .5-9.

**THE 200 - Professional Preparation**

Topics include preparing for auditions, portfolio reviews, interviews, and research papers for entrance into graduate schools or professional theatre venues.

Prerequisite: Junior/Senior standing and by Instructor permission only.

Credits: 1-3.

**THE 210 - Acting V:Shakespeare Scene Study**

Refining and developing script analysis and performance skills using Shakespeare, ancient Greek, Moliere, or other stylized texts. Prerequisite: 10. Fall only.

Credits: 3.

**THE 230 - Advanced Scene Design**

An in-depth study of the realization process for a stage design. A combination of script analysis, sketching, model making, rendering, and paint elevations, all as forms of communication. Prerequisites: 30, 130. Fall only.

Credits: 3.

**THE 250 - Directing I**

Theory of theatrical directing, including script analysis; approaches to audition, rehearsal, and performance; coaching actors. Prerequisites: 10, 20, 30, 40, 50; either 130 or 140, either 150 or 151. Fall only.

Credits: 3.

**THE 251 - Directing II**

Development of skills and aesthetic values through the direction of a complete one act play. Not offered as performance opportunity. Enrolled students may not perform as actors in their own projects. Prerequisites: 250, and declared senior Theatre majors only. Spring only.

Credits: 3.

**THE 283 - Seminar**

Fall only. Credits: 3

Credits: 3.

**THE 284 - Seminar**

Spring only. Credits: 3

Credits: 3.

**THE 297 - Senior Readings and Research**

Fall only. Credits: 3

Credits: 1-3.

**THE 298 - Senior Readings & Research**

Spring only. Credits: 1-3

Credits: 1-3.

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Sarah E. Carleton

Associate Professor of Theatre

Appointed in [1995](#)

[Theatre Department](#)

BA 1979 [Saint Michaels College](#)

MFA 1985 [Catholic University of America](#)

[Search Courses for Sarah Carleton](#)

John B Forbes

Associate Professor of Theatre

Appointed in [2003](#)

[Theatre Department](#)

BA 1975 [University of California Berkeley](#)

MFA 1978 [University of Massachusetts Amherst](#)

[Search Courses for John Forbes](#)

Melissa S. Lourie

Lecturer I of Theatre

Appointed in [2002](#)

[Theatre Department](#)

BA 1977 [Hamilton College](#)

MFA 1981 [American Film Institute Conservatory](#)

[Search Courses for Melissa Lourie](#)

Jeffrey Robin Modereger

Professor of Theatre

Education Appointed in [1993](#)  
[Theatre Department](#)

- Graduate College BA 1971 [Augustana College](#)
- Honors College MFA 1975 [University of Utah](#)  
[Search Courses for Jeffrey Modereger](#)

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

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Gregory Alexander Ramos  
Associate Professor of Theatre  
Chairperson of Theatre  
Appointed in [2006](#)  
[Theatre Department](#)  
BA 1997 [University of California Los Angeles](#)  
MFA 1999 [University of California Los Angeles](#)  
[Search Courses for Gregory Ramos](#)

---

Alfred Charles Snider  
Professor of Theatre  
Appointed in [1982](#)  
[Theatre Department](#)  
BA 1972 [Brown University](#)  
MS 1976 [Emerson College](#)  
PHD 1983 [University of Kansas](#)  
[Search Courses for Alfred Snider](#)

---

Martin Andrew Thaler  
Professor of Theatre  
Appointed in [1983](#)  
[Theatre Department](#)  
BA 1980 [Saint Michaels College](#)  
MFA 1983 [Pennsylvania State University](#)  
[Search Courses for Martin Thaler](#)

---

Peter Jack Tkatch  
Associate Professor of Theatre  
Appointed in [1992](#)  
[Theatre Department](#)  
BA 1964 [SUNY Albany](#)  
MFA 1971 [Temple University](#)  
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## Vermont Studies Program

### Contact Information

University of Vermont  
 Vermont Studies Program  
 Nolin House  
 589 Main St  
 Burlington, VT 05401-3439

Phone: (802) 656-8363  
 Fax: (802) 656-8518  
 Email: [crv@uvm.edu](mailto:crv@uvm.edu)

[Web Site](#)

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## Vermont Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours (at least five courses), of which at least nine hours must be at the 100 level or above. As an interdisciplinary minor, it must include at least fifteen hours from departments outside the major. Completion of Vermont Studies [VS 52](#), three of the following VS courses: [VS 55](#), [VS 64](#), [VS 92](#) or [VS 192](#), [VS 123](#), [VS 160](#), [VS 184](#), and two additional courses from an approved list chosen in consultation with the Vermont Studies advisor.

### Affiliations

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## Courses in Vermont Studies

### VS 052 - Introduction to Vermont

Survey of Vermont's geography, history, politics, social issues, ethnic populations, culture, and environment. Special emphasis on an interdisciplinary approach to the study of Vermont.

Credits: 3.

### VS 055 - Environmental Geology

See GEOL 055.

Credits: 4.

### VS 064 - Native Americans of Vermont

See ANTH 064. Cross-listed with: ANTH 064.

Credits: 3.

### VS 092 - Vermont Field Studies

Cross-listed with: GEOG 092.

Credits: 3.

### VS 095 - Introductory Special Topics

See schedule of courses for specific titles.

Credits: 1-6.

### VS 096 - Introductory Special Topics

See schedule of courses for specific titles.

Credits: 3.

### VS 123 - The Vermont Political System

See POLS 123. Prerequisite: POLS 021.

Credits: 3.

### VS 160 - The Literature of Vermont

Education

Cross-listed with: ENGS 178.

Credits: 3.

• Graduate College

• Honors College

**VS 162 - Geography of Place Names**

(See Geography 162.) Prerequisite: three hours in Geography.

Credits: 3.

• School of Business  
Administration

**VS 184 - Vermont History**

Prerequisite: Three Hours in History; HST 011

Credits: 3.

• The Rubenstein  
School of  
Environment and  
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**VS 191 - Internships**

Prerequisite: Nine hours of Vermont Studies; permission of Director of Vermont Studies; Junior/Senior standing.

Credits: 3.

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**VS 192 - Vermont Field Studies**

Prerequisite: Three hours in Geography. Cross-listed with: GEOG 192.

Credits: 3.

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**VS 195 - Intermediate Special Topics**

See schedule of courses for specific titles.

Credits: 1-6.

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**VS 196 - Intermediate Special Topics**

See schedule of courses for specific titles.

Credits: 3.

**VS 197 - Readings & Research**

Prerequisite: Declared minor in Vermont Studies.

Credits: 1-6.

**VS 198 - Readings and Research**

Prerequisite: Declared minor in Vermont Studies.

Credits: 1-6.

**VS 230 - The Vermont Economy**

(See Economics 230, Seminar C.) Prerequisites: EC 170, 171, 172.

Credits: 3.

**VS 284 - Seminar in Vermont History**

Topical approach to Vermont history through original research utilizing primary sources available at UVM, (Same as HST 284). the Vermont Historical Society, and the Vermont State Archives. Prerequisites: Junior or senior standing, 12 hours of history, including 184 or permission.

Credits: 3.

**VS 295 - Advanced Special Topics**

See schedule of courses for specific titles. Prerequisite: Advanced undergraduate or graduate standing.

Credits: 1-3.

**VS 296 - Advanced Special Topics**

See schedule of courses for specific titles. Prerequisite: Advanced undergraduate or graduate standing.

Credits: 1-3.

**VS 297 - Readings & Research**

Prerequisite: Declared minor in Vermont Studies.

Credits: 1-3.

**VS 298 - Readings & Research**

Prerequisite: Declared minor in Vermont Studies.

Credits: 1-3.

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Colleges and Schools > College of Arts and Sciences > Departments and Programs > Women's and Gender Studies Program

## Women's and Gender Studies Program

### Contact Information

*University of Vermont  
 Women's and Gender Studies Program  
 228 Old Mill  
 94 University Place  
 Burlington, VT 05405-0114*

Phone: (802) 656-4282

Fax: (802) 656-8405

Email: [wmst@zoo.uvm.edu](mailto:wmst@zoo.uvm.edu)

[Web Site](#)

### Affiliations

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## Women's and Gender Studies (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A total of thirty-six hours (twelve courses) are required for the major.

- Core (twelve hours): Women's and Gender Studies - [WGST 73](#), [WGST 101](#), [WGST 273](#), and [WGST 191](#) or [WGST 192](#);
- Electives (nine hours): One additional race/ethnicity class beyond the A&S requirement, one additional non-European culture class beyond the A&S requirement and any one course in fine arts or humanities cross-listed with Women's and Gender Studies.
- Concentration (fifteen hours): An individually-designed concentration consisting of five approved Women's and Gender Studies electives, at least four of which are at or above the 100 level.

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## Women's and Gender Studies (Undergraduate Minor)

### Specific Requirements

Eighteen hours of course work to include [WGST 73](#), [WGST 273](#) and six hours at the 100 level or above to be chosen with the approval of the Women's and Gender Studies Committee or the consent of a Women's and Gender Studies advisor. Students may take a maximum of nine hours in any one discipline toward the minor. Not all sections of a multisection course will necessarily meet Women's and Gender Studies approval for the minor. (Students should consult the course listings each semester for further details.)

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## College of Arts and Sciences Cross College Minors

The minors listed below have been approved for College of Arts and Sciences students and will fulfill minor requirements for Bachelor of Arts, Bachelor of Science, and Bachelor of Music candidates. In some cases, minor requirements differ for Arts and Sciences students and students from other colleges at UVM. In those cases, Arts and Sciences students must complete the requirements listed separately for "Arts and Sciences majors."

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- [Agricultural and Resource Entrepreneurship](#)
- [Animal Science](#)
- [Applied Design](#)
- [Business Administration](#)
- [Community and International Development](#)
- [Consumer Affairs](#)
- [Consumer and Advertising](#)
- [Forestry](#)
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Academic Offerings > Accounting (Minor)

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- College of Nursing and Health Sciences
- Continuing

## Accounting (Undergraduate Minor)

### Specific Requirements

#### Prerequisites:

Economics 11, Economics 12, Mathematics 19 or 21, Statistics 111 or 141. Students must have basic microcomputer literacy, including a working knowledge of word processing and spreadsheet software. Students lacking this basic knowledge are responsible for attaining it through course work, self study, tutorials, or workshops.

*Introductory Accounting:* [BSAD 60](#) and [BSAD 61](#) or [BSAD 65](#). (A student may not receive credit for [BSAD 65](#) after completion of either [BSAD 60](#) or [BSAD 61](#).) Students must earn at least a 2.0 in *each* introductory accounting course taken to continue with an accounting minor. If a 2.0 is not achieved, a student may switch to a business administration minor.

*Upper Level Accounting Requirements:* [BSAD 161](#), and [BSAD 162](#), plus two courses from [BSAD 164](#), [BSAD 168](#), [BSAD 266](#), and [BSAD 267](#). A student must earn a 2.0 average in these four courses to earn an accounting minor.

#### Students Majoring in Business

Students majoring in Business Administration are not required to have a minor to meet degree requirements; however, a business student may choose to have a minor outside of Business. The department issuing the minor sets the requirements and determines if the student is eligible to minor in their program. The student must contact the appropriate department to obtain more information.

#### Non-Business Students

Two different minors are available in the School of Business Administration for non-

- Education
- Graduate College
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- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

business majors: Business Administration or Accounting. An application is required and may be obtained at the Student Services Office, 101 Kalkin Hall. Acceptance into the minor program requires completion of the prerequisite courses with a GPA of 2.0 or better in these courses. Admission may be more restrictive if applications exceed the capacity of the program.

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Academic Offerings > Agricultural and Resource Entrepreneurship (Minor)

## Agricultural and Resource Entrepreneurship (Undergraduate Minor)

### Specific Requirements

Any student interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Fifteen to sixteen credits including 12 credits in required courses [CDAE 166](#), [CDAE 167](#), [CDAE 168](#), [CDAE 266](#); one course three to four credits from the following restricted electives: [CDAE 157](#), [CDAE 264](#), [CDAE 267](#).

*Arts and Sciences Majors:* This minor is also available for Arts and Sciences students. Courses required are: [CDAE 061](#), [CDAE 166](#), [CDAE 167](#), [CDAE 168](#), and [CDAE 266](#). Arts and Sciences students should note that [BSAD 065](#), [MATH 019](#), and [CS 002](#) or instructor permission are listed as prerequisites for some of the upper level courses.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Community Development and Applied Economics Department](#).

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Academic Offerings > Animal Science (Minor)

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## Animal Science (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Animal Science department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Five courses with a minimum of 15 credit hours including Introductory Animal Sciences ([ASCI 001](#)); two courses selected from core sciences including [ASCI 043](#), [ASCI 110](#), [ASCI 122](#), [ASCI 141](#), [ASCI 205](#), [ASCI 212](#), [ASCI 215](#), [ASCI 216](#), [ASCI 220](#); two courses selected from applied sciences including [ASCI 006](#), [ASCI 113](#), [ASCI 115](#), [ASCI 117](#), [ASCI 118](#), [ASCI 119](#), [ASCI 121](#), [ASCI 125](#), [ASCI 134](#), [ASCI 135](#), [ASCI 143](#), [ASCI 154](#), [ASCI 161](#), [ASCI 171](#), [ASCI 220](#), [ASCI 230](#), [ASCI 231](#), [ASCI 233](#), [ASCI 234](#), [ASCI 263](#), [ASCI 264](#), [ASCI 272](#). At least eight credits must be at 100-level, three of which must be at 200-level.

*For students in the College of Arts and Sciences:* Five courses with a minimum of 15 credit hours, including Introductory Animal Science ([ASCI 001](#)), two courses in Core Science including [ASCI 043](#), [ASCI 110](#), [ASCI 122](#), [ASCI 141](#), [ASCI 205](#), [ASCI 212](#), [ASCI 215](#), [ASCI 216](#), and two courses selected from Applied Sciences including [ASCI 006](#), [ASCI 115](#), [ASCI 117](#), [ASCI 118](#), [ASCI 119](#), [ASCI 121](#), [ASCI 125](#), [ASCI 134](#), [ASCI 135](#), [ASCI 143](#), [ASCI 154](#), [ASCI 161](#), [ASCI 171](#), [ASCI 220](#), [ASCI 230](#), [ASCI 231](#), [ASCI 233](#), [ASCI 234](#), [ASCI 263](#), [ASCI 264](#), [ASCI 272](#). At least 8 credits must be at the 100-level, 3 of which must be at the 200-level. Acceptance into this program is by application only. Contact Dept. of Animal Science, 102 Terrill, for more information.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Animal Science Department](#).

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Academic Offerings > Applied Design (Minor)

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## Applied Design (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Nine credits in required courses: [CDAE 015](#); [CDAE 001](#) or [CDAE 016](#), [CDAE 101](#) or [CDAE 231](#) plus two additional elective courses at or above the 100-level, approved by the student's advisor to define an applied design focus for a total of 15 credits.

*Arts and Sciences Majors:* Nine of the 15 hours must be at the 100-level or above. The Applied Design minor is not available to students majoring or minoring in Studio Art.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Community Development and Applied Economics Department](#).

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## Business Administration (Undergraduate Minor)

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### Specific Requirements

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#### Prerequisites:

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Economics 11, Economics 12, Mathematics 19 or 21, Statistics 111 or 141. Students must have basic microcomputer literacy, including a working knowledge of word processing and spreadsheet software. Students lacking this basic knowledge are responsible for attaining it through course work, self study, tutorials, or workshops.

Colleges and Schools

*Accounting:* [BSAD 60](#) and [BSAD 61](#) or [BSAD 65](#). (A student may not receive credit for [BSAD 65](#) after completion of [BSAD 60](#) or [BSAD 61](#).)

- College of Agriculture and Life Sciences

*Other Business requirements:* Three business field courses (numbered 100-299), at least one of which must be from the following list: [BSAD 120](#), [BSAD 132](#), [BSAD 141](#), [BSAD 150](#), [BSAD 173](#), or [BSAD 180](#).

- College of Arts and Sciences

To be awarded a business administration minor, a student must earn at least a 2.0 cumulative grade point average in the business minor courses.

- College of Education and Social Services

*One year MBA opportunity:* A student minoring in Business Administration may complete an MBA at UVM in one year after earning a bachelor's degree if: (1) [BSAD 60](#) and [BSAD 61](#) are completed; (2) three of [BSAD 120](#), [BSAD 132](#), [BSAD 150](#), [BSAD 173](#), and [BSAD 180](#) are selected to meet the minor requirement; (3) the other two courses on this list are taken as electives; and (4) the student applies and is admitted to the MBA program under regular criteria.

- College of Engineering and Mathematics

#### Students Majoring in Business

- College of Medicine

Students majoring in Business Administration are not required to have a minor to meet degree requirements; however, a business student may choose to have a minor outside

- College of Nursing and Health Sciences

- Continuing

- Education
- Graduate College
- Honors College
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of Business. The department issuing the minor sets the requirements and determines if the student is eligible to minor in their program. The student must contact the appropriate department to obtain more information.

### Non-Business Students

Two different minors are available in the School of Business Administration for non-business majors: Business Administration or Accounting. An application is required and may be obtained at the Student Services Office, 101 Kalkin Hall. Acceptance into the minor program requires completion of the prerequisite courses with a GPA of 2.0 or better in these courses. Admission may be more restrictive if applications exceed the capacity of the program.

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## Community and International Development (Undergraduate Minor)

### Specific Requirements

Any student interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

A total of 15 credit hours with 12 from required courses [CDAE 002](#), [CDAE 061](#), [CDAE 102](#) and either [CDAE 171](#), [CDAE 296](#) or [CDAE 273](#); and three hours from a list of restricted electives as follows: [CDAE 166](#), [CDAE 167](#), [CDAE 237](#), [CDAE 251](#), [CDAE 255](#), or [CDAE 272](#).

*Arts and Sciences Majors:* This minor is also available for Arts and Sciences students. Courses required are: a total of 15 credits with 12 from required courses [CDAE 002](#), [CDAE 061](#) or [EC 012](#), [CDAE 102](#), and either [CDAE 171](#), [CDAE 273](#), or [CDAE 296](#); and three hours from a list of restricted electives as follows: [CDAE 166](#), [CDAE 167](#), [CDAE 237](#), [CDAE 251](#), [CDAE 255](#), [CDAE 272](#), [EC 140](#).

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- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Community Development and Applied Economics Department](#).

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## Consumer Affairs (Undergraduate Minor)

### Specific Requirements

Any student interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Fifteen credits including [CDAE 127](#), [CDAE 128](#), [CDAE 157](#), [CDAE 159](#); plus one of the following restricted electives: [CDAE 102](#), [CDAE 250](#), or [CDAE 255](#). *Note: CDAE majors must take CDAE 250 as their "elective."*

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Community Development and Applied Economics Department](#).

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Academic Offerings > Consumer and Advertising (Minor)

## Consumer and Advertising (Undergraduate Minor)

### Specific Requirements

Any student interested in enrolling in this minor should contact the Community Development and Applied Economics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Fifteen credits including [CDAE 015](#), [CDAE 127](#), [CDAE 128](#), [CDAE 183](#), and an advisor-approved elective.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Community Development and Applied Economics Department](#).

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## Forestry (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

Applications for the minor must be filed no later than June 1 of the year preceding graduation. A minimum of 16 credit hours is required, with at least nine at the 100-level or higher.

Required courses: [FOR 1\\*](#) or [FOR 73](#); [FOR 21](#); additional FOR courses to total 16 credits.

\* Students in the The Rubenstein School may not count FOR 1 towards completion of a Forestry minor.

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#).
- Departments and Programs: [Forestry Program](#).

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Academic Offerings > Human Development and Family Studies (Minor)

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## Human Development and Family Studies (Undergraduate Minor)

### Overview

The minor in Human Development and Family Studies affords students a foundation in the processes of development across the life span, focusing on individual development, family relationships, and major influences on both.

This minor cannot be the sole minor for sociology or psychology majors but is acceptable as a second minor, especially for persons interested in careers involving work with families and youth. For other majors, it can be the sole minor.

### Specific Requirements

Eighteen hours including [HDFS 005](#), [HDFS 060](#), [HDFS 065](#); three 100 or 200 level HDFS courses except [291, 296]. This minor cannot be the sole minor for sociology or psychology majors but is acceptable as a second minor, especially for persons interested in careers involving work with families and youth.

### Affiliations

- Colleges and Schools: [College of Education and Social Services](#).
- Departments and Programs: [Integrated Professional Studies Department](#).

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Academic Offerings > Microbiology (Minor)

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- Continuing

## Microbiology (Undergraduate Minor)

### Specific Requirements

Core requirements are [MMG 101](#) and [MMG 104](#) , [BCOR 101](#), [BCOR 103](#); plus an additional six credit hours of MMG courses chosen from [MMG 195/MMG 196](#), [MMG 201](#), [MMG 203](#), [MMG 211](#), [MMG 220](#), [MMG 222](#), [MMG 223](#), [MMG 225](#), [MMG 240](#), [MMG 295/MMG 296](#), [MMG 320](#), depending on student needs.

*Agriculture and Life Sciences Majors:* Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Microbiology and Molecular Genetics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

*Arts and Sciences Majors:* A student may minor in Microbiology and Molecular Genetics upon permission of the departmental Undergraduate Affairs Committee and assignment of a minor advisor within the department who will direct the student's program plan and course selection.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Medicine](#)
- Departments and Programs: [Microbiology and Molecular Genetics Department](#).

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Academic Offerings > Molecular Genetics (Minor)

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## Molecular Genetics (Undergraduate Minor)

### Specific Requirements

Core requirements are [MMG 101](#), [MMG 104](#), [BCOR 101](#), [BCOR 103](#); plus an additional six credit hours of MMG courses chosen from [MMG 195/MMG 196](#), [MMG 201](#), [MMG 203](#), [MMG 211](#), [MMG 223](#), [MMG 225](#), [MMG 231](#), [MMG 240](#), [MMG 295/MMG 296](#), [MMG 312](#), [MMG 320](#), [MMG 352](#), depending on student needs.

*Agriculture and Life Sciences Majors:* Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Microbiology and Molecular Genetics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

*Arts and Sciences Majors:* A student may minor in Microbiology and Molecular Genetics upon permission of the departmental Undergraduate Affairs Committee and assignment of a minor advisor within the department who will direct the student's program plan and course selection.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#), [College of Medicine](#)
- Departments and Programs: [Microbiology and Molecular Genetics Department](#).

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## Nutrition and Food Sciences (Undergraduate Minor)

### Specific Requirements

A total of fifteen credit hours in Nutrition and Food Sciences, 9 credit hours consisting of [NFS 043](#), [NFS 053](#), [NFS 143](#), and six credits of NFS courses from the following: [NFS 153](#), [NFS 165](#), [NFS 195](#), or any 200-level course approved by the student's minor advisor that will define a particular focus. Independent study, field experience and undergraduate research cannot be counted in this total.

*Agriculture and Life Sciences Majors:* Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Nutrition and Food Science Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

*Arts and Sciences Majors:* Arts and Sciences students must select at least eight credits of NFS course work at or above the 100-level.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Nutrition and Food Sciences Department](#).

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Academic Offerings > Plant and Soil Science (Minor)

## Plant and Soil Science (Undergraduate Minor)

### Specific Requirements

Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Plant and Soil Science Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Sixteen credits including [PSS 010](#) or [PSS 011](#), [PSS 161](#), plus an additional 9 credits in Plant and Soil Science courses at the 100-level or above.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Plant and Soil Science Department](#).

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Academic Offerings > Recreation Management (Minor)

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## Recreation Management (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School of Environment and Natural Resources does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

The minor requires a planned course of study which will provide a substantive introduction into the field of recreation management. Interested students should contact the Program Chair. A total of 15 credit hours are required. A minimum of nine credits are to be selected from [RM 1](#), [RM 50](#), [RM 138](#), [RM 153](#), [RM 157](#), [RM 158](#). A minimum of six credits are to be selected from [RM 230](#), [RM 235](#), [RM 240](#), [RM 255](#), [RM 258](#).

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#).
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- Continuing

## Special Education (Undergraduate Minor)

### Overview

The minor in special education is for undergraduate students wishing to learn more about special education in their career path, as well as enhancing their skills teaching students with diverse needs. Students apply to the minor through contacting the Special Education Program in the Department of Education.

### Specific Requirements

A total of 18 hours (6 courses) of coursework is required, at least 9 hours of which must be at the 100 level or above. Course offerings cover the areas of foundations of special education, assessment practices, and methods for supporting students with disabilities in general education classrooms.

#### For students in the College of Arts and Sciences:

A total of 18 hours of coursework is required, at least nine hours must be at the 100-level or above. Minor requirements include: [EDSP 5](#); at least two of the following courses [EDSP 217](#), [EDSP 224](#), [EDSP 280](#), [EDSP 290](#), [EDSP 295](#); and up to three electives (nine hours) may be chosen from the core courses above and the following electives [EDSP 200](#), [EDPE 260](#), [CMSI 1](#), [CMSI 2](#), [CMSI 20](#), [CMSI 94](#), [CMSI 285](#), [CMSI 299](#).

### Affiliations

- Colleges and Schools: [College of Education and Social Services](#).
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Academic Offerings > Sustainable Agriculture (Minor)

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- Continuing

## Sustainable Agriculture (Undergraduate Minor)

### Specific Requirements

Fifteen hours including nine in required courses [ASCI 230](#) or [CDAE 208](#), [CDAE 061](#) and [PSS 152](#); three or four credits from the following restricted electives: [ASCI 110](#), [ASCI 113](#), [ASCI 115](#), [ASCI 118](#), [ASCI 213](#), [ASCI 214](#), [ASCI 220](#), [ASCI 231](#), [ASCI 233](#), [ASCI 234](#), [ASCI 264](#) or [CDAE 171](#), [CDAE 205](#), [CDAE 218](#), [CDAE 272](#), [CDAE 273](#), or [PSS 106](#), [PSS 161](#), [PSS 122](#), [PSS 123](#), [PSS 124](#), [PSS 125](#), [PSS 126](#), [PSS 127](#), [PSS 138](#), [PSS 141](#), [PSS 145](#), [PSS 154](#), [PSS 210](#), [PSS 215](#), [PSS 217](#), [PSS 221](#), [PSS 232](#); and a three to six credit hour internship: [AGRI 195](#) ♦ [Special Topics](#), [ASCI 197](#) or [ASCI 297](#), [CDAE 196](#), or [PSS 197](#) or [PSS 297](#).

Agriculture and Life Sciences Majors: Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Plant and Soil Science, Community Development and Applied Economics, or Animal Science departments. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections.

Arts and Sciences Majors: Fifteen hours to include: [CDAE 061](#), [CDAE 208](#), [PSS 152](#), one elective at 100- or 200-level in ASCI/CDAE/PSS (see list of approved electives in Department or Dean's Offices) and three to six hours of internship at 100 or 200 level in AGRI/ASCI/CDAE/PSS. Note: Students should take their four academic courses before they design their internship experience. Thus the intership will serve as a culminating event in this program of study. The College of Arts and Sciences requires their students to receive a letter grade for internships taken in minor programs of study.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#).
- Departments and Programs: [Plant and Soil Science Department](#).



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- Continuing

## Wildlife Biology (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School of Environment and Natural Resources does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

Applications for the minor must be filed no later than June 1 of the year preceding graduation or of the completion of the requirements for the minor. A minimum of 15 credit hours is required in prescribed and elective courses. Required courses: [WFB 130](#), [WFB 174](#); [WFB 271](#) or [WFB 273](#). Elective courses: [WFB 131](#), [WFB 150](#), [WFB 176](#), [WFB 177](#), [WFB 185/WFB 186](#), [WFB 187/WFB 188](#), [WFB 271](#), [WFB 272](#), [WFB 273](#), [WFB 274](#), [WFB 275](#), [WFB 279](#), [WFB 285/WFB 286](#), [WFB 287/WFB 288](#); [NR 224](#).

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#).
- Departments and Programs: [Wildlife and Fisheries Biology Program](#).

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## College of Arts and Sciences First-Year Programs

The first year of university-level study is challenging. The College of Arts and Sciences offers students two programs that help them complete the first year successfully and acquire the skills and background necessary for success throughout their university careers.

In their first semester, students are encouraged to enroll in the Teacher-Advisor Program (TAP), which is designed to help students begin a successful liberal arts education. TAP combines interactive courses with careful academic advising. In TAP seminars, students approach significant issues from a variety of points of view, develop their critical thinking, and improve their skills in oral and written communication. Students' TAP instructors are also their academic advisors and help first-year students discover their interests and reach each academic goal. TAP courses all satisfy the College's distribution requirements. Typical topics for TAP courses include "Science as a Way of Knowing," "Coming to America: Autobiography and Ethnicity," "Geology and Ecology of Lake Champlain," "Rationality: Belief in God," and "Student Movements in the Twentieth Century." More than forty different courses like these are available to first-year students each year.

As students enter their second semester, it is important for them to continue developing the critical thinking, speaking and writing skills cultivated in TAP, and also to reflect on their choices of majors and minors. Our second-semester program, AIM (Academic Introduction to the Major), is designed to facilitate the transition into a potential major. Courses identified in the AIM program encourage the intellectual shift from a broad exposure to the liberal arts to in-depth study in a particular field. The AIM program identifies courses in all disciplines that serve as "gateway" courses to the major, giving students an opportunity to begin exploring the discipline in a more substantial manner in coursework that introduces them to the nature of inquiry typical in the major.

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## College of Arts and Sciences Internships

Arts and Sciences students are encouraged to do internships and may count up to 12 hours of internship credit towards their B.A. or B.S. Full information on internships and the regulations governing them is found in the Arts and Sciences Internship brochure, available in 304 Waterman.

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## College of Arts and Sciences John Dewey Honors Program

The [John Dewey Honors Program](#)  brings together academically committed students who seek an especially challenging and creative undergraduate experience. John Dewey Scholars participate in seminars with other honors students from across the liberal arts, take one or more honors-level courses and complete their senior year with an honors thesis or creative project. A variety of special seminars and cultural, social, and service activities round out the program. John Dewey scholars have an honors advisor to help them design the best possible schedule of courses, and are given priority enrollment for courses. The Honors Program lounge offers students a quiet space for studying and socializing.

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## College of Arts and Sciences Preprofessional Preparation

Whether you are interested in medical, dental or law school, or graduate work in other fields, the College of Arts and Sciences offers you excellent opportunities to complete your preprofessional education.

### Medicine and Dentistry

Minimum requirements for entry into medical and dental schools include one year each of biology, general chemistry, organic chemistry, physics and calculus. Increasing numbers of medical and dental schools also are requiring a year of English, work in the humanities, social sciences, and languages. There is however no required or preferred major. As long as you complete the courses required by your chosen professional schools, you may pursue any undergraduate major in UVM's College of Arts and Sciences. Medical and dental schools are primarily concerned with the overall scope and quality of undergraduate work. Only about half the first-year students in medical or dental schools have majored in a science, for example. Thus, you should follow your true interests and work to achieve the academic standing necessary for. Your academic advisor will help you plan your program. In addition, the Center for Career Development coordinates pre-medical and pre-dental advising, and has information about the requirements of specific medical and dental schools.

Because the UVM College of Arts & Sciences offers the advantages of a small liberal arts college within a comprehensive university, students have the opportunity to do research with faculty who are nationally and internationally recognized leaders in their fields. We have an excellent record of placing graduates in medical and dental schools. Among the institutions where recent pre-medical graduates are now studying are Albert Einstein College of Medicine, Baylor, Boston University, Columbia, Cornell, Dartmouth, Hanaman Hospital and the Mayo Clinic, while pre-dental graduates are studying at Boston University, Columbia, NYU, Northwestern, and University of Pennsylvania.

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The Pre-Medical Enhancement Program (PEP) is a joint offering of the College of Arts and Sciences, the College of Agriculture and Life Sciences, and the College of Medicine to provide enhanced opportunities for a select group of highly qualified pre-medical students. Interested students apply to PEP in the second semester of their first year. Those students accepted in the PEP program will be assigned a practicing physician-mentor who will introduce the concepts of patient care and practice management through regularly scheduled office-based/clinical experiences. The PEP Coordinator in the College of Medicine will provide information on opportunities for medical research experience and volunteer/employment possibilities in the health sciences or health policy fields. On a monthly basis, students will receive listings about special educational offerings at the College of Medicine and the Academic Medical Center. PEP students will also be able to participate in practice interviews with members of the University of Vermont Pre-Medical Committee. In their junior year, PEP students will be able to apply to the University of Vermont College of Medicine. More information is available on [Pep at the Career Service Web Site](#) .

## Law

A significant number of UVM students consider attending law school immediately or a few years after graduation. UVM is successful in placing its graduates in leading law programs around the country, including at Yale University, New York University, Columbia University, and the University of Michigan.

Arts & Sciences students have the opportunity to participate in the accelerated BA/JD Program with Vermont Law School. The Program allows exceptionally qualified students to complete both a Bachelor of Arts in the College of Arts and Sciences and a Juris Doctor at Vermont Law School in six rather than seven years. For program information, contact The Dean's Office at 656-3166.

The University of Vermont provides guidance to its pre-law students through the Center for Career Development and a Faculty Pre-Law Advisory Committee. We begin working with students as soon as they express an interest in law and provide guidance throughout the undergraduate career.

Unlike pre-medical programs, where students must take a prescribed set of courses, there is no pre-law curriculum. "What law schools seek in their entering students is not accomplishment in mere memorization," states the Association of American Law Schools, "but accomplishment in understanding, the capacity to think for themselves, and the ability to express their thoughts with clarity and force." The Association does not prescribe a specific course of study to prepare undergraduates for law school, but rather suggests a broad approach to liberal arts including work in English, humanities, logic, mathematics, social sciences, history, philosophy, and the natural sciences.

## Graduate Study in Other Fields

In addition to medical, dental or law school, Arts and Sciences students pursue graduate education in a variety of fields ranging from ethnomusicology to journalism or immunology. Recent UVM College of Arts and Sciences graduates have been accepted

at such institutions as the University of Wisconsin, Brandeis, Harvard, University of Michigan, Yale, New York University, Princeton, Cornell, Berkeley, Tufts, and Duke.

### Secondary Teaching

Students in the College of Arts and Sciences who are interested in becoming eligible to teach in secondary grades (7-12) should review the College of Education and Social Services section titled Teacher Education. All requirements must be fulfilled as listed in the CESS Secondary Education State Approved program and not simply the sequence of Professional courses. The requirements are also available at [the CESS Web site](#) .

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## College of Arts and Sciences Requirements for the Bachelor of Arts

Students must comply with the degree requirements as stated in one edition of the Catalogue in place during the time they are enrolled. However, since the curriculum is viewed as a coherent whole, selected parts from different catalogues may not be counted. Students who do not complete the degree within seven years must comply with the requirements in the catalogue current at the date of readmission. Disputed rulings may be appealed to the Committee on Academic Standing.

- A. A student must earn a cumulative grade-point average of 2.0 in a program comprised of a minimum of 122 credits to include two credits of physical education activities. Students receiving degrees from the College of Arts and Sciences may apply no more than 10 credits of Physical Education toward the 122 required for graduation. Students 25 years of age or older at the time of admission to the University or students with a documented medical condition which precludes participation in such activities are exempt from the physical education requirement and must present a total of 120 hours of academic credit.

Of the 122 hours of credit required, students electing a minor offered by the College must complete 96 hours in courses offered by departments and programs in the College of Arts and Sciences. The remaining 24 hours may be taken in courses offered by any academic unit at The University of Vermont. Students electing an approved minor offered by another school or college of the University (a cross-college minor), must complete 84 hours in courses offered by the departments and programs in the College of Arts and Sciences. The remaining 36 hours of credit, to include courses required for the minor, may be taken in courses offered by any academic unit of The University of Vermont.

No more than eight hours of Military Studies credit may apply toward the degree.

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Courses taken on a pass/no pass basis may not be used toward completion of any requirement listed below under sections C and D and E.

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B. A student must be matriculated in the College of Arts and Sciences and in residence at The University of Vermont during the period in which he or she earns 30 of the last 45 hours of academic credit applied toward the degree.

C. Guidelines for a Second Bachelor's Degree

- The bachelor of science in the College of Arts and Sciences is not a tagged degree. As a consequence, someone who has completed a B.S. in Arts and Sciences will not receive a second degree should he or she complete an additional major within the same degree.
- If a B.S. graduate of Arts and Sciences is readmitted and/or completes an additional major beyond the one used towards the original diploma, the additional major and course work will be added to the transcript. A second degree will only be awarded when the additional coursework completed satisfies the requirements for a different degree with a different major from the one initially awarded (i.e. B.S. graduate with a major in chemistry completes requirements for a B.A. in physics).
- Students who do not complete the degree within seven years must comply with the requirements in the catalogue current at the time of readmission.

D. A student must complete the following courses which comprise the general and distributive requirements for the Bachelor of Arts degree. All courses used to satisfy these requirements must carry at least three hours of credit and may not be taken on a pass/no pass basis. Each semester Special Topics and cross-listed courses (95, 96, 195, 196, 295, 296) are offered which may meet general and distributive requirements. Check in the Dean's office if you have a question about a specific course.

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## General Requirements

1. *Non-European Cultures*: One course, other than a foreign language, which deals with non-European cultural traditions.<sup>1</sup> The course selected to satisfy this requirement may also be used to fulfill the distributive requirement, but one course cannot be used to satisfy both General Requirements 1 and 2.
2. *Race Relations and Ethnic Diversity in the United States*: One course which addresses centrally the question of race relations and ethnic diversity in the U.S.<sup>2</sup> The course selected to satisfy this requirement may also be used to fulfill the distributive requirement, but one course cannot be used to satisfy both General Requirements 1 and 2.

## Distribution Requirements

Six of the seven categories must be completed. No more than two courses from the same department may be used to satisfy the distribution requirement. No single course may satisfy more than one category, except that a foreign language course which fulfills the literature category simultaneously fulfills the category of foreign language. Courses which satisfy major and minor requirements may also be used to satisfy distribution requirements.

1. *Foreign Language*: One course numbered 52, or in Latin, 51 and 52, or one course numbered 100 or above (except Spanish 105). A student who has achieved a score of 4 or better on an appropriate Advanced Placement Test will be exempt from this requirement.<sup>3</sup> Exemption will also be granted to those students who achieve a score of 650 or better on the appropriate CEEB Achievement Test and who pass oral and written tests administered by the appropriate foreign language department.
  2. *Mathematical Sciences*: One mathematics course numbered 17 or above or Statistics 51 or above or Computer Science 11 or above.<sup>3</sup>
  3. *Fine Arts*: One course in Studio Art or Art History, Music,<sup>4</sup> Theatre,<sup>5</sup> or Film and Television Studies.
  4. *Literature*: One course selected from a list of approved offerings in Classics, English, French, German, World Literature, Greek, Italian, Latin, Russian, and Spanish.<sup>6</sup>
  5. *Humanities*: Two courses selected from a list of approved offerings in ALANA U.S. / Ethnic Studies, Art History, Classics, Greek, History, Latin, Philosophy, Political Science, and Religion.<sup>7</sup>
  6. *Social Sciences*: Two courses selected from a list of approved offerings in Anthropology, Communication Sciences, Economics, Geography, Area and International Studies, Political Science, Psychology, Sociology, Vermont Studies, and Women's and Gender Studies.<sup>8</sup>
  7. *Natural Sciences*: Two courses, one of which must include laboratory experience, from among the offerings in Astronomy, Biology, Botany, Chemistry, Geology, Physics.
- A student must complete an approved Major in the College of Arts and Sciences by satisfying the requirements specified by the department or program supervising the major and by maintaining a cumulative grade-point average of 2.0 in the major field. No more than 45 hours of credit in the major field may be used toward completion of the 122 hours of credit required for graduation. At least one-half of the credit hours used toward the major requirements must be taken at The University of Vermont. Of these, at least 12 credits must be at or above the 100 level. Application of credits earned elsewhere to completion of the major is subject to approval by the appropriate department chairperson

or program director. No courses applied toward satisfaction of major requirements may be taken on a pass/no pass basis.

- A student must complete a minor approved by the College of Arts and Sciences in a field other than the major by satisfying the requirements specified by the department or program supervising the minor.<sup>9</sup> Also, a student must maintain a cumulative grade-point average of 2.0 in the minor field.<sup>10</sup> Completion of a second major will satisfy the minor requirement. As with the major, at least one-half of the credit hours used toward completion of the minor requirements must be taken at The University of Vermont, and application of credits earned elsewhere toward completion of the minor is subject to approval by the appropriate department chairperson or program director. No courses applied toward satisfaction of the minor requirements may be taken on a pass/no pass basis.

## Footnotes

1. The following courses have been approved for this category: [ANTH 021](#), [ANTH 023](#), [ANTH 024](#), [ANTH 028](#), [ANTH 064](#), [ANTH 152](#), [ANTH 160](#), [ANTH 161](#), [ANTH 162](#), [ANTH 163](#), [ANTH 165](#), [ANTH 166](#), [ANTH 167](#), [ANTH 172](#), [ANTH 179](#), [ANTH 180](#); [ART 008](#), [ART 146](#), [ART 185](#), [ART 187](#), [ART 188](#), [ART 192](#), [ART 285](#); [CLAS 145](#); [ENGS 061](#), [ENGS 179](#), [ENGS 182](#); [FREN 289](#); [GEOG 001](#), [GEOG 051](#), [GEOG 056](#), [GEOG 151](#), [GEOG 154](#), [GEOG 173](#); [HST 009](#), [HST 010](#), [HST 035](#), [HST 036](#), [HST 040](#), [HST 041](#), [HST 045](#), [HST 046](#), [HST 050](#), [HST 051](#), [HST 062](#), [HST 063](#), [HST 140](#), [HST 141](#), [HST 142](#), [HST 146](#), [HST 149](#), [HST 150](#), [HST 151](#), [HST 152](#), [HST 161](#), [HST 163](#), [HST 164](#), [HST 240](#), [HST 241](#), [HST 250](#), [HST 252](#); [MU 007](#), [MU 107](#); [PHIL 003](#), [PHIL 121](#), [PHIL 122](#), [PHIL 221](#); [POLS 157](#), [POLS 168](#), [POLS 170](#), [POLS 174](#), [POLS 175](#), [POLS 177](#), [POLS 179](#); [REL 020](#), [REL 021](#), [REL 130](#), [REL 131](#), [REL 132](#), [REL 134](#), [REL 141](#), [REL 145](#), [REL 230](#); [SOC 171](#), [SOC 213](#), [SOC 272](#); [WLIT 145](#).
2. The following courses have been approved for this category: All ALANA U.S. Ethnic Studies courses; [ANTH 064](#), [ANTH 160](#), [ANTH 169](#), [ANTH 187](#); [CMSI 160](#); [EC 153](#); [ENGS 057](#), [ENGS 111](#), [ENGS 159](#), [ENGS 160](#), [ENGS 176](#), [ENGS 177](#); [GEOG 060](#); [HST 068](#), [HST 168](#), [HST 169](#), [HST 187](#), [HST 188](#), [HST 189](#); [MU 005](#), [MU 105](#); [POLS 029](#), [POLS 129](#); [PSYC 269](#); [REL 080](#), [REL 128](#); [SOC 019](#), [SOC 031](#), [SOC 118](#), [SOC 119](#), [SOC 219](#); [WLIT 016](#), [WLIT 116](#). [ART 295](#) "Working With Culturally Diverse Sources" and [ART 295](#) "Cultural Transformations" will meet this requirement. [ANTH 187](#) is cross-listed with [SOC 119](#).
3. See Admissions Section for information concerning academic credit for Advanced Placement Testing.
4. Music Performance courses (one and two credit hours each) may be used to satisfy the Fine Arts requirement if their cumulative credit hour total is equal to or greater than three.
5. Speech courses will not satisfy the Fine Arts requirement.
6. The following courses have been approved for this category: [CLAS 037](#), [CLAS 042](#), [CLAS 153](#), [CLAS 155](#), [CLAS 156](#); all English courses except: [ENGS 001](#), [ENGS 004](#), [ENGS 050](#), [ENGS 053](#), [ENGS 101](#), [ENGS 102](#), [ENGS 103](#), [ENGS](#)

104, ENGS 105, ENGS 107, ENGS 114, ENGS 117, ENGS 118, ENGS 119, ENGS 120; all French courses numbered 111 or above except course numbered 200-219 or 290-294; all World Literature courses; all German courses numbered above 100 except: GERM 103, GERM 104, GERM 121, GERM 122, GERM 201, GERM 202, GERM 213; all Greek courses numbered above 200; all Italian course above 100; all Latin courses numbered above 100 except LAT 111, LAT 112, LAT 255; all Russian courses numbered above 100 except: RUSS 101, RUSS 121, RUSS 122, RUSS 141, RUSS 142, RUSS 161, RUSS 221, RUSS 222, RUSS 251, RUSS 271; all Spanish courses numbered 140 or above except courses numbered 200-219, 290-294 or SPAN 299.

7. The following courses have been approved for this category: all Art History, History, Philosophy, Religion courses; ALAN 055, ALAN 159; CLAS 021, CLAS 023, CLAS 024, CLAS 035, CLAS 121, CLAS 122, CLAS 149, CLAS 154, CLAS 157, CLAS 158, CLAS 159, CLAS 221, CLAS 222; GRK 203, GRK 205; LAT 255; POLS 041, POLS 141, POLS 142, POLS 143, POLS 144, POLS 146, POLS 147, POLS 241, POLS 242, POLS 243, POLS 244, POLS 249.
8. The following courses have been approved for this category: all Anthropology, Economics, Geography, Psychology, and Sociology courses; CMSI 020, CMSI 080, CMSI 090, CMSI 094; AIS 091(A), AIS 091(B); all Political Science courses except: POLS 041, POLS 141, POLS 142, POLS 143, POLS 144, POLS 146, POLS 147, POLS 241, POLS 242, POLS 243, POLS 244, POLS 249; VS 052; WST 073.
9. Only one course may be applied toward completion of both a major and a minor requirement.
10. The minor grade-point average will be calculated from the first set of courses which satisfy the minor requirements. However, if a student's grade-point average in these courses falls below 2.0, and there are additional courses which are approved for inclusion in the minor, a student may elect to drop for purposes of the grade-point average calculation, one course graded below C and to replace this course with an approved alternate.

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## College of Arts and Sciences Requirements for the Bachelor of Music

Students must comply with the degree requirements as stated in one edition of the Catalogue in place during the time they are enrolled. However, since the curriculum is viewed as a coherent whole, selected parts from different catalogues may not be counted. Students who do not complete the degree within seven years must comply with the requirements in the catalogue current at the date of readmission. Disputed rulings may be appealed to the Committee on Academic Standing.

- A. A student must earn a cumulative grade-point average of 2.0 in a program consisting of a minimum of 122 credits for a bachelor of music degree with a concentration in performance. Of these hours of required credit, two hours must be associated with physical education activities. Students receiving degrees from the College of Arts and Sciences may apply no more than 10 credits of Physical Education toward the 122 required for graduation. Students 25 years of age or older at the time of admission or students with a documented medical condition which precludes participation in such activities are exempt from the physical education requirement and must present a total of 120 hours of academic credit. Courses taken on a pass/no pass basis may not be used toward the completion of any requirement listed below under sections C, D, and E.
- B. A student must be matriculated in the College of Arts and Sciences and in residence at UVM during the period in which he or she earns 30 of the last 45 hours of academic credit applied toward the degree.
- C. A student must complete the Distributive and General Requirements identical to that required for the Bachelor of Arts degree.
- D. A student must complete a Major with a concentration in performance by satisfying

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the requirements specified by the department, and by maintaining a cumulative grade-point average of 2.0 in the major field. Admission is through audition at the end of the first year. At least one-half of the credit hours used toward the major requirements must be taken at The University of Vermont. Of these, at least 12 credits must be at or above the 100 level. Application of credits earned elsewhere to completion of the major is subject to approval by the appropriate department chairperson or program director. No courses applied toward satisfaction of major requirements may be taken on a pass/no pass basis.

*Bachelor of Music (with optional minor) degree.* A student electing this degree program must satisfy all of the requirements specified in sections A, B, C, and D (above) as well as:

- E. A student must complete an approved minor in a field other than the major by satisfying the requirements specified by the department or program supervising the minor and by maintaining a cumulative grade-point average of 2.0 in the minor field. Students electing a minor offered by the College must complete 96 hours in courses offered by departments and programs in the College of Arts and Sciences. The remaining 24 hours may be taken in courses offered by any academic unit at The University of Vermont. Students electing an approved minor offered by another school or college of the University (a cross-college minor) must complete 84 hours in courses offered by the departments and programs in the College of Arts and Sciences. The remaining 36 hours of credit, to include courses required for the minor, may be taken in courses offered by any academic unit of The University of Vermont. At least one-half of the credit hours used toward completion of the minor requirements must be taken at The University of Vermont, and application of credits earned elsewhere toward completion of the minor is subject to approval by the appropriate department chairperson or program director. No courses applied toward satisfaction of the minor requirements may be taken on a pass/no pass basis.

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## College of Arts and Sciences Requirements for the Bachelor of Science

Students must comply with the degree requirements as stated in one edition of the Catalogue in place during the time they are enrolled. However, since the curriculum is viewed as a coherent whole, selected parts from different catalogues may not be counted. Students who do not complete the degree within seven years must comply with the requirements in the catalogue current at the date of readmission. Disputed rulings may be appealed to the Committee on Academic Standing.

- A. A student must earn a cumulative grade-point average of 2.0 in a program comprised of a minimum of 122 semester hours to include two hours of physical education activities. Students receiving degrees from the College of Arts and Sciences may apply no more than 10 credits of Physical Education toward the 122 required for graduation. Students 25 years of age or older at the time of admission or students with a documented medical condition which precludes participation in such activities are exempt from the physical education requirement and must present a total of 120 hours of academic credit. Of the 122 credit hours required, 96 credits must be taken in courses offered by departments and programs in the College of Arts and Sciences (except for the B.S. in Biological Science which requires 84 Arts and Sciences credit hours). The remaining 24 credits may be taken in courses offered by any academic unit of The University of Vermont, although no more than eight credits of Military Studies may apply toward the degree. Courses taken on a pass/no pass basis may not be used toward the completion of any requirement listed below under sections D and E and F.
- B. A student must be matriculated in the College of Arts and Sciences and in residence at UVM during the period in which he or she earns 30 of the last 45 credits of academic credit applied toward the degree.



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## C. Guidelines for a Second Bachelor's Degree

- The bachelor of science in the College of Arts and Sciences is not a tagged degree. As a consequence, someone who has completed a B.S. in Arts and Sciences will not receive a second degree should he or she complete an additional major within the same degree.
- If a B.S. graduate of Arts and Sciences is readmitted and/or completes an additional major beyond the one used towards the original diploma, the additional major and course work will be added to the transcript. A second degree will only be awarded when the additional coursework completed satisfies the requirements for a different degree with a different major from the one initially awarded (i.e. B.S. graduate with a major in chemistry completes requirements for a B.A. in physics).
- Students who do not complete the degree within seven years must comply with the requirements in the catalogue current at the time of readmission.

D. A student must complete the General Requirement Race Relations and Ethnicity in the United States. A student must complete the Distributive Requirement for the Bachelor of Science degree by completing six courses selected from at least two of the following areas: Foreign Language, Fine Arts, Literature, Humanities, and Social Sciences. Students opting for a Bachelor of Science degree in Psychology must also complete the College of Arts and Sciences distribution requirements for a Bachelor of Science degree and they may not use Psychology courses to fulfill the social sciences category. No courses applied toward satisfaction of the distributive requirements may be taken on a pass/no pass basis.

E. A student must complete an approved Major in the College of Arts and Sciences by satisfying the requirements specified by the department or program supervising the major, and by maintaining a cumulative grade-point average of 2.0 in the major field. No more than 50 credits in the major field may be used toward completion of the 122 hours of credit required for graduation. At least one-half of the credit hours used toward the major requirements must be taken at UVM. Of these at least 12 credits must be at or above the 100-level. Application of credits earned elsewhere toward completion of the major is subject to approval by the appropriate department chairperson or program director. No courses applied toward satisfaction of major requirements may be taken on a pass/no pass basis.

*Bachelor of Science (with optional minor) degree:* A student electing this degree program must satisfy all of the requirements specified in sections A, B, C, D and E (above), as well as:

F. A student must complete an approved minor in a field other than the major by satisfying the requirements specified by the department or program supervising the minor and by maintaining a cumulative grade-point average of 2.0 in the minor field. Students electing a minor offered by the College must complete 96 hours in courses offered by departments and programs in the College of Arts and Sciences. The remaining 24 hours may be taken in courses offered by any academic unit at The University of Vermont. Students electing an approved minor offered by another

school or college of the University (across-college minor) must complete 84 hours in courses offered by the departments and programs in the College of Arts and Sciences. The remaining 36 hours of credit, to include courses required for the minor, may be taken in courses offered by any academic unit of The University of Vermont. At least one-half of the credit hours used toward completion of the minor requirements must be taken at The University of Vermont, and application of credits earned elsewhere toward completion of the minor is subject to approval by the appropriate department chairperson or program director. No courses applied toward satisfaction of the minor requirements may be taken on a pass/no pass basis. No more than two of the courses from section D distribution requirements may be applied toward the completion of the minor requirements.

Only one course may be applied toward completion of both a major and a minor requirement. The minor grade-point average will be calculated from the first set of courses which satisfy the minor requirements. However, if a student's grade-point average in these courses falls below 2.0, and there are additional courses which are approved for inclusion in the minor, a student may elect to drop for purposes of the grade-point average calculation, one course graded below C and to replace this course with an approved alternate.

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Colleges and Schools > College of Arts and Sciences > Requirements > Regulations (Governing Independent Study, College Honors, Study Abroad, Transfer into the College, Academic Standards)

## Regulations (Governing Independent Study, College Honors, Study Abroad, Transfer into the College, Academic Standards)

### Regulations Governing Independent Study

A student may receive credit for a project or program of independent study which is supervised by an academic department or program within the University. Such independent study projects may be carried out under registration in courses entitled Readings and Research or Internship. All such projects must conform to University guidelines for independent study. There is no limit on the number of independent study credits which may be earned, but prior approval by the Committee on Honors and Individual Studies is required if a student wishes to elect nine or more such credits in a single semester.

### Regulations Governing College Honors

- A. The College Honors program, designed for the superior student with unusual initiative and intellectual curiosity, provides an opportunity for the pursuit of a two-semester, six-credit (3-3) independent research, scholarly, or creative project under the direction of a faculty sponsor. A student in the College of Arts and Sciences may apply for College Honors in a particular subject if, at the end of the junior year, he or she has a grade-point average of at least 3.20 and has been on the Dean's List for three semesters. The program must have been approved by the sponsoring department and by the Committee on Honors and Individual Studies. All application materials must be turned in to the Committee by September 30 of the candidate's senior year. Students must present a satisfactory written report and pass an oral examination upon completion of the honors project. Students who wish to consider undertaking a College Honors project during the junior year should contact the Office of the Dean for information concerning the circumstances in which such an exceptional arrangement is possible. College Honors credit will

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• Graduate College

• Honors College

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be counted toward the 45-hour limit (50-hour limit for B. S. candidates) in the major.

B. Some departments in the College, including Economics, English, History, Mathematics, Political Science, Religion, and Sociology, sponsor Departmental Honors programs. Participation in these programs is limited to those students who are specifically recommended by their department. Each department will define what is required to earn Departmental Honors. A student who successfully completes this program is granted a degree with Departmental Honors. These programs are administered directly by the sponsoring department and information concerning them may be obtained from faculty advisors.

C. Students admitted to the Honors College may also earn College Honors via their activities as part of the John Dewey Honors Program. In the senior year, John Dewey Scholars complete College Honors as described in Section A above. For further information, contact the Honors College or the John Dewey Honors Program.

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### **Regulations Governing Study Abroad**

Students should refer to the general University regulations and procedures pertaining to Study Abroad. For Arts and Sciences students the following additional policies pertain to the application of credit earned in a Study Abroad program:

- A. Regardless of the number of credits accepted in transfer by the University, a maximum of 16 credits earned in a one-semester Study Abroad program will be applied toward satisfaction of degree requirements. For year-long programs, a maximum of 32 credits will be applied toward the degree.
- B. Students must complete 30 of the last 45 hours of degree credit in residence at UVM. One-half of the hours applied toward the satisfaction of major requirements, including 12 hours at the 100 level or above, must be completed at The University of Vermont. One-half of the hours applied toward the satisfaction of minor requirements must be completed at The University of Vermont.
- C. Under no circumstances will a student in the College of Arts and Sciences be permitted to enroll in a University-sanctioned Study Abroad program while on trial.

### **Regulations Governing Transfer into the College**

A student who wishes to transfer into the College of Arts and Sciences from another college or school at the University must comply with the Intercollege Transfer policy in the section on Academic and General Information (page 35). Applications for internal transfer may be submitted to the Office of the Dean at any time, and they will be reviewed on a continuous basis.

## Regulations Governing Academic Standards

The following criteria for academic trial and dismissal, while making allowances for the student in the first semester, are designed to encourage academic work of quality at least equal to the minimum which is required for graduation.

### Trial

- A. A student who earns a semester grade-point average higher than that which merits dismissal but below 2.00 is placed on trial. In order to avoid dismissal from the University, a student who has been placed on trial must in the following semester earn a 2.00 semester average, enroll in all courses for a letter grade, and maintain a program of 12 or more credit hours. No student will be removed from trial until both the semester and cumulative averages are at least 2.00. A student who is on trial may not enroll in a University-sanctioned study abroad program.
- B. First-Year Students. Following the first semester of enrollment, a student who earns a semester grade-point average higher than that which merits dismissal, but below 1.67, is placed on trial and must in the following semester satisfy the same probationary requirements as described above. All first-year students who have a cumulative grade-point average which is below 2.00 after completion of the second semester will be placed on trial.

### Dismissal

- C. A student who does not satisfy the conditions of trial, or who earns a semester grade-point average of 1.00 or lower, or who earns failing grades in one-half of the semester credit hours attempted (excluding courses in physical education and military studies) will be dismissed for low scholarship. The period of dismissal is one year. Dismissed students must receive written approval from the Arts and Sciences Dean's Office before enrolling in any University course.

### Readmission Following Dismissal

- D. A dismissed student who presents evidence of his/her ability to perform satisfactorily may be considered for readmission on trial. A student who has been dismissed for a second time will not be considered for readmission on trial until at least three years have elapsed. Further information regarding readmission may be obtained from the Office of the Dean.

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Colleges and Schools > College of Arts and Sciences > Requirements > Requirements for All Undergraduate Degree Students

## Requirements for All Undergraduate Degree Students

### College and School Requirements

Undergraduate degrees are conferred on the recommendation of the colleges/schools. Specific degree requirements may be found in the catalogue sections devoted to the respective colleges/schools.

### Grades

To be eligible for graduation, a student must have attained a cumulative grade-point average sufficient to meet the minimum requirements for the college/school in which the student is officially enrolled. Beginning with the class of 1984, the minimum grade-point average for graduation is 2.00. Grades in courses accepted for transfer credit are excluded in computing this average.

### UVM Residency in Last 30 of 45 Credit Hours

Every degree candidate must have taken 30 of the last 45 credit hours (15 of the last 30 for two-year students) in residence at the University before being awarded their degree. An exception to this rule exists for those students who have completed three years of premedical study in the University and are awarded their degrees after successful completion of one year of study in any approved college of medicine. Other exceptions to this rule may be made only upon decision of the dean or the appropriate faculty committee of the student's college/school.

### Second Bachelor's Degree

A student may earn more than one degree by satisfying all of the requirements for those degrees.

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**Physical Education Requirement**

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Two physical education credits, normally completed during the first or sophomore year, are required of all undergraduate students in four-year programs. These credits will be included in the total number of hours required for graduation. Students may opt to take physical education on a pass/no pass basis. Medical examinations are required of all new students. Those with serious conditions may be given restricted work or may be excused by the Director of the Student Health Center.

Students 25 years of age or older at time of admission or readmission are exempt from physical education requirements.

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## College of Education and Social Services (CESS)

### Contact Information

*University of Vermont  
College of Education and Social Services  
528 Waterman Building  
Burlington, Vermont 05405*

Phone: (802) 656-3468  
Fax: (802) 656-0855  
Email: [Beth.Mohler@uvm.edu](mailto:Beth.Mohler@uvm.edu)

[Web Site](#)

### Overview

### Undergraduate Programs

The College of Education and Social Services (CESS) offers undergraduate programs in Athletic Training, Human Development and Family Studies, Social Work, and Teacher Education (Art, Early Childhood Education PreK-3, Early Childhood Special Education, Elementary, Family and Consumer Sciences, Middle Level, Music, Physical Education, and Secondary Education). First-year students may elect an Undecided major while exploring the above options within the College. Students who have completed one year of course work at UVM and who demonstrate interest in an area of study related to CESS offerings may pursue an Individually Designed program. All programs require course work in the liberal arts and sciences along with professional preparation through course work and internships in school and community settings.

### Graduate Programs

### In this College

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Education

- Graduate College

- Honors College

- School of Business Administration

- The Rubenstein School of Environment and Natural Resources

The College offers numerous opportunities for graduate study in preparation for special competencies in a variety of fields which include practica, research problems, and in-service relationships with cooperating school systems and social service agencies.

Satisfactory performance on the Graduate Record Examination (GRE) General Test is required for consideration for assistantships and fellowships in all programs.

Aptitude test scores are not required for admission to the Doctor of Education program and for the Master of Education programs, except the program in Higher Education and Student Affairs (HESA). The HESA program accepts either GRE scores or scores from the Miller Analogies Test (MAT).

The Master of Science in Counseling program and the Master of Social Work program both require satisfactory performance on the Graduate Record Examination (GRE) General Test.

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- [Teacher Education: Physical Education \(K-12\) \(B.S.\)](#)
- [Teacher Education: Secondary Education \(7-12\) \(B.S.\)](#)

### Undergraduate Minor (Minor)

- [Human Development and Family Studies \(Minor\)](#)
- [Special Education \(Minor\)](#)



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Colleges and Schools > College of Education and Social Services > Academic Offerings > Athletic Training Education (B.S.)

## Athletic Training Education (Bachelor of Science)

### Overview

The purpose of the Athletic Training Education Program (ATEP) is to provide students the knowledge and practical skills to enter the profession of athletic training. Athletic Training is an academic major at UVM and provides students with an all-encompassing education fitting of a medical profession. The undergraduate program at the University of Vermont has been approved by the National Athletic Trainer's Association (NATA) since 1979 and is currently accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). It is designed to provide the undergraduate student with professional preparation and eligibility to sit for the National Athletic Trainer's Association Board of Certification (NATABOC) examination. Certified athletic trainers are highly trained medical professionals qualified to work in a number of settings to enhance the quality of health care for athletes and those engaged in physical activity. Working closely with physicians and other allied health professionals, their expertise includes the prevention, evaluation, management, and rehabilitation of injuries incurred by the physically active.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

In addition to coursework, students are required to complete a minimum of 800 hours of clinical experience under the direct supervision of certified athletic trainers on campus and at local off-campus affiliate sites.

The required 800 clinical experience hours is based upon three years in the program (second through fourth). First year students are required to

Education	participate in an introductory period of directed observation experience of 60 hours. During this time, the student becomes acquainted with the various daily duties and routines of the staff and athletic training students, the operations of the training room and basic athletic training skills. Once admitted to the ATEP, students are assigned to Approved Clinical Instructors. These assignments include team practice and game coverage, team travel, and sports therapy clinic coverage. Students also have the option of a number of other practical experiences during their final year including observing in surgery or emergency room, orthopedic research, emergency rescue squad runs, etc. Each student is evaluated at regular intervals and must demonstrate mastery of educational competencies to continue with the next assignment.
• Graduate College	
• Honors College	
• School of Business Administration	
• The Rubenstein School of Environment and Natural Resources	

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Admission to the program is contingent upon successful completion of 60 hours of directed observation, pre-admission coursework, overall GPA, and an interview with the program faculty. Students are also required to submit a formal application to the program director. In addition, students must meet technical standards consistent with the practice of Athletic Training as a profession. These standards are published in the Athletic Training Education Program Policies and Procedures Manual. Due to accreditation standards, the program is selective and space limited. A competitive review of applicants takes place at the end of each academic year by the Athletic Training Education Committee. Advanced Placement in the ATEP is available to transfer students with prior experience and coursework relative to Athletic Training. Guidelines for the advanced placement application are available through the program director.

### Curriculum

First Year		
Course	Credits	
	Fall	Spring
<a href="#">MLRS 003</a> Medical Terminology	1	
<a href="#">ENGS 001</a> Written Expression	3	
<a href="#">MATH 009</a> or higher	3	
<a href="#">PHYS 011</a> Elementary Physics I	4	
<a href="#">PHYS 021</a> Introductory Lab	1	
<a href="#">EDPE 023</a> Amer Red Cross Emergency Response	3	
<a href="#">PEAC 028</a> Conditioning	1	
<a href="#">EDPE 157</a> Care and Prevention of Athletic Injuries		3
<a href="#">EDPE 158</a> Directed Observation in Athletic Training		2
<a href="#">EDHE 046</a> Personal Health		3
<a href="#">PHYS 012</a> Elementary Physics II		4

<u>PHYS 022</u> Introductory Lab		1
<u>NFC 043</u> Fundamentals of Nutrition		3
PEAC Elective		1
Total	16	17
<b>Sophomore Year</b>		
<b>Course</b>	<b>Fall</b>	<b>Spring</b>
<u>ANPS 019</u> Anatomy and Physiology I	4	
<u>AT 159</u> Practicum in Athletic Training I	2	
<u>AT 184</u> Evaluation and Recognition of Athletic Injuries I	4	
<u>PSYC 001</u> General Psychology	3	
<u>CHEM 023</u> Outline of General Chemistry	4	
<u>ANPS 020</u> Anatomy and Physiology II		4
<u>AT 160</u> Practicum in Athletic Training II		2
<u>AT 185</u> Evaluation and Recognition of Athletic Injuries II		4
<u>EDPE 166</u> Kinesiology		3
<u>SOC 019</u> Race Relation in the U.S		3
Total	17	16
<b>Junior Year</b>		
<b>Course</b>	<b>Fall</b>	<b>Spring</b>
<u>AT 161</u> Practicum in Athletic Training III	2	
<u>AT 186</u> Therapeutic Modalities	3	
<u>AT 195</u> Special Topics in Athletic Training	3	
<u>EDPE 167</u> Exercise Physiology	4	
<u>EDPE 168</u> Test and Measurement in Exercise and Sport Science	3	
<u>AT 162</u> Practicum in Athletic Training IV		2
<u>AT 187</u> Rehabilitation Techniques in Athletic Training		3
<u>AT 188</u> Administration in Athletic Training		2
<u>NFS 163</u> Sports Nutrition		3
<u>EDPE 265</u> Seminar in Exercise and Sport Science		3
Humanities Elective(PHIL, POLS, HIST)		3
Total	15	16
<b>Senior Year</b>		
<b>Course</b>	<b>Fall</b>	<b>Spring</b>
<u>AT 190</u> Internship in Athletic Training	6-12	
<u>MLRS 120</u> Health Care Ethics	3	
<u>EDPE 197</u> Readings and Research (required)	3	
<u>EDPE 241</u> Sport Psychology	3	
<u>AT 190</u> Internship in Athletic Training (or minimum 6 credits free electives)		6-12
Humanities Elective (PHIL, POLS, HIST)		3
<u>EDPE 267</u> Science of Strength Training, Conditioning, and		

Biomechanics		3
Total	15- 21	12- 18

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- Departments and Programs:[Education Department](#).

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Colleges and Schools > College of Education and Social Services > Academic Offerings > Education: Individually Designed Program (B.S.)

## Education: Individually Designed Program (Bachelor of Science)

### Overview

Students enrolled in the College of Education and Social Services who are interested in an area of study, which isn't offered as one of the current options, may propose an individually designed program of study. Specific criteria and degree requirement information are available in 528 Waterman.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Affiliations

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- Departments and Programs: [Education Department](#).

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## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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Colleges and Schools > College of Education and Social Services > Academic Offerings > Human Development and Family Studies (B.S.)

## Human Development and Family Studies (Bachelor of Science)

### Overview

The Human Development and Family Studies program examines the ways people grow and develop, form relationships and families, and learn to cope with the common and uncommon events of life.

Students learn basic and applied concepts of human development and acquire skills in working with individuals and families of different ages and backgrounds in a variety of settings. Field experience is required of all students.

Human Development and Family Studies is available as a major concentration for students in the Early Childhood, Elementary, Family and Consumer Sciences, and Physical Education licensure programs, and as a minor primarily for students outside of the College of Education and Social Services.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Students in Human Development and Family Studies complete General Education requirements in Behavioral and Social Sciences, Communication Skills, Humanities, Physical and Biological Sciences and Multicultural Electives. They also enroll in a sequence of courses and field experiences designed to provide a comprehensive understanding of individual and family development across the life span. These courses are arranged in two blocks: the introductory core and the advanced core.

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The introductory core in Human Development and Family Studies involves three components. The first, Introduction to Human Development and Family Studies and Academic Service ♦ Learning, provides students an introduction to the topics pursued in the major, how they relate to everyday life settings, how knowledge in the discipline is gained, and the types of skills necessary to both acquire and use this knowledge. The second component in the introductory core is a course covering individual development across the entire life span. Students learn what is typical of individuals at different points in their lives and the various factors, such as gender and social class, that influence development. The third component in the introductory core is a two-semester course dealing with the impact of families and other social institutions such as the school system on individual development. A course on Human Relations and Sexuality completes the introductory core.

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The advanced core in Human Development and Family Studies consists of a series of advanced seminars and a field experience. All majors take seminars in Developmental Theory and Family Ecosystems. Four additional advanced seminars must be selected in consultation with an advisor. The field experience requires 15 to 20 hours per week. Students choose a placement from a variety of public and private local agencies. Field placement sites have included museums, the court system, battered women ♦s shelters, centers for abused and neglected children, city and state government agencies, group homes, rehabilitation centers, local business and industry, childcare settings, hospitals, senior-citizen centers, and other human service agencies.

## Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<u>HDFS 001 - Intro to HDFS and Academic Service ♦ Learning</u>	3	
<u>HDFS 005 - Human Development</u>	3	
General Education Electives	6	9
Electives	3	3
<u>HDFS 060 - Family Context of Development</u>		3
Race & Culture		1
Total	15	16
SOPHOMORE		
Course	Term	
	Fall	Spring
<u>HDFS 065 - Human Relationships &amp; Sexuality</u>	3	
<u>HDFS 161 - Social Context of Development</u>	3	
Physical Education Electives	1	1
General Education Electives	6	12
Electives	3	3
Total	16	16

<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
HDFS Adv Seminar	6	3
General Education Electives	6	3
Electives	3	9
<b>Total</b>	<b>15</b>	<b>15</b>
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>HDFS 266 - Seminar: Theory</u>	3	
<u>HDFS 296 - Field Experience</u>	6	
Electives	3	12
<u>HDFS 260 - Family Ecosystem</u>		3
<b>Total</b>	<b>12</b>	<b>15</b>

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- Departments and Programs: Integrated Professional Studies Department.

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## Social Work (Bachelor of Science)

### Overview

The principal educational objective of the Social Work Program is to prepare students for beginning social work practice with individuals, families, small groups, organizations, and communities.

The program provides education for social work practice based on a liberal arts education in the social sciences and humanities. The program is fully accredited by the Council on Social Work Education. Throughout the program of study, students gain the values, knowledge, and skills necessary to provide social services and to effect social change in institutions and communities.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Bachelor of Science degree in Social Work requires a minimum of 122 approved credit hours, 27 credits of which are general education components from the six approved academic areas (Arts and Letters, Mathematics, Science, Social Sciences, Humanities, Health and Physical Education), including two credits for physical education activities and one credit for Race and Culture Studies. Additionally, students are required to take at least one course that focuses substantially on issues concerned with Africa, Asia, Latin America, the Middle East, or countries known as the Third World.

The student in consultation with his/her advisor, selects elective courses which will provide the opportunity to develop individual interests. Additional courses in anthropology, education, foreign language, history, philosophy, political science,

- Education psychology, sociology, statistics, special education, and women's studies are recommended. Students who intend to pursue a Master of Social Work (MSW) degree are strongly advised to take a course in statistics.
- Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources
- A committee of Social Work faculty may review students' progress each semester throughout the four years. Students may be asked to participate in that process if the faculty deems necessary.
- Students must complete the required liberal arts courses with a minimum grade of C-; completion of the initial Social Work courses ([SWSS 2](#), 3, 5, 47, 48, 167) with a minimum grade of C; completion of the upper level Social Work courses ([SWSS 164](#), 165, 166, 168, 169, 171, 172, 173, 174) with a minimum grade of B and an overall GPA in all courses of 2.0.

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## Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">SOC 001 - Introduction to Sociology</a>	3	
<a href="#">SWSS 002 - Foundations of Social Work</a>	3	
Third World Elective	3	
Humanities Elective	3	
General Electives	3	6
<a href="#">EDSS 011 - Race and Culture</a>		1
<a href="#">POLS 021 - American Political System</a>		3
<a href="#">PSYC 001 - General Psychology</a>		3
<a href="#">SWSS 003 - Human Needs &amp; Social Services</a>		3
Total	15	16
SOPHOMORE		
Course	Credits	
	Fall	Spring
<a href="#">EC 011 - Principles of Macroeconomics</a>	3	
<a href="#">ENG 050 - Expository Writing</a>	3	
<a href="#">PSYC 152 - Abnormal Psychology</a>	3	
<a href="#">SWSS 047 - Human Beh in the Soc Envr I</a>	3	
Physical Education Elective	1	
General Electives	3	6
<a href="#">BIOL 003 - Human Biology</a> or <a href="#">SWSS 005 - Biosociopolitical Issues SW</a>		3
<a href="#">SWSS 048 - Human Beh in the Soc Envr II</a>		3
<a href="#">SWSS 060 - Racism &amp; Contemporary Issues</a>		3
Total	16	15

<b>JUNIOR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>SWSS 164 - Intro Social Work Research</u>	3	
<u>SWSS 165 - Iss &amp; Pol in Social Welfare I</u>	3	
General Electives	9	12
<u>SWSS 166 - Iss &amp; Pol in Social Welfare II</u>		3
Physical Education Elective		1
Total	15	16
<b>SENIOR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>SWSS 168 - Social Work Practice I</u>	3	
<u>SWSS 171 - Field Experience Seminar I</u>	3	
<u>SWSS 173 - Field Experience I</u>	6	
General Electives	3	3
<u>SWSS 169 - Social Work Practice II</u>		3
<u>SWSS 172 - Field Experience Seminar II</u>		3
<u>SWSS 174 - Field Experience II</u>		6
Total	15	15
TOTAL CREDITS: 123		

**Notes:**

1. In the senior year, students spend approx. 15 hours/wk. over two semesters (450 total hours) as interns in a public or private social service agency. Within the same year, students must take SWSS 168, SWSS 169, SWSS 171, SWSS 172, SWSS 173 and SWSS 174.
2. Typically students apply for SWSS 173 Field Experience in the spring of Junior year. Application for the Field requires consultation with the student's advisor to determine that all introductory and intermediate professional and required courses have been successfully completed. The process includes a written statement that describes the student's interests and qualifications. The advisor and student also review professional readiness issues, including strengths, conduct, maturity, and areas to strengthen. When there are concerns about a student's field readiness, these concerns will be reviewed by the Undergraduate Program Committee, and recommendations will be made.

**Affiliations**

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Social Work Department.

[Location]



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Colleges and Schools > College of Education and Social Services > Academic Offerings > Teacher Education: Art Education (K-12) (B.S.)

## Teacher Education: Art Education (K-12) (Bachelor of Science)

### Overview

The College works cooperatively with the Art Department in the College of Arts and Sciences to offer a program in Art Education which leads to both degree and licensure for grades K-12.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Students fulfill course requirements in general education, professional art education, professional education courses, studio art, art history, and related subjects. Graduates satisfy College of Education and Social Services requirements for teacher licensure and partake in coursework in the Art Department in the College of Arts and Sciences. The program allows sufficient additional advanced courses as recommended by the Art Department for admission to graduate school.

Students must be enrolled in the College of Education and Social Services. Those admitted as first-year students or sophomores to the Art Education Program are considered Candidates in the Program. Admission as Majors is made at the beginning of the junior year following formal review procedures during the second semester of the sophomore year.

Students must meet with their advisors and get approval to set up student teaching and accompanying courses prior to enrolling in student teaching.

Education

A minimum of 124 approved semester hours is required for the degree including three semester hours of teaching reading for teacher licensure.

- Graduate College

- Honors College

- School of Business Administration

- The Rubenstein School of Environment and Natural Resources

Students are responsible for obtaining information regarding teacher licensure and degree requirements from the Office of Student Services, 528 Waterman, or the [Student Services Web site](#) .

### Curriculum

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<b>FIRST-YEAR</b>		
Course	Credits	
	Fall	Spring
<a href="#">HDFS 005 - Human Development</a>	3	
Studio Art Foundation	3	3
Art History	3	3
General Education Electives	6	6
<a href="#">EDSP 005 - Issues Affecting Persons with Disabilities</a>		3
<a href="#">EDSS 011 - Race &amp; Culture</a>		1
Total	15	16
<b>SOPHOMORE</b>		
Course	Term	
	Fall	Spring
Studio Art Foundation	3	
Art History Elective	3	
Studio Art	3	6
Physical Education Elective	1	1
General Education Electives	6	6
Elective		3
Total	16	16
<b>JUNIOR YEAR</b>		
Course	Term	
	Fall	Spring
<a href="#">EDAR 177 - Curriculum &amp; Pract. in Elem. Art</a>	4	
<a href="#">EDAR 178 - Curriculum &amp; Pract. in Middle/HS Art</a>	4	
Studio Art	6	6
Electives	3	3
<a href="#">EDAR 284 - Current Issues in Art &amp; Ed</a>		3
* Literacy Requirement		3
Total	17	14-15
* <a href="#">EDSC 215</a> , <a href="#">EDEL 177</a> ( <i>Middle Level section only</i> ) or <a href="#">EDLT 236</a>		
<b>SENIOR YEAR</b>		



Course	Term	
	Fall	Spring
<u>EDFS 203 - Soc Hist&amp; Phil Found of Ed</u>	3	
Studio Art	6	
Electives	6	
<u>EDAR 283 - Current Issues in Art &amp; Ed</u>		3
<u>EDSC 226 - Teaching Internship</u>		12
Total	15	15

Students apply to the Art Education Major during second semester of sophomore year. Students must be accepted in order to enroll in required methods courses.

### Affiliations

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Education Department.

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Colleges and Schools > College of Education and Social Services > Academic Offerings > Teacher Education: Early Childhood Education (PreK-3) (B.S.)

## Teacher Education: Early Childhood Education (PreK-3) (Bachelor of Science)

### Overview

The Early Childhood Education Program is designed to provide students with the perspectives and skills necessary to work with young children from birth through grade three in inclusionary, developmentally appropriate settings. These include the abilities to:

- a. Facilitate children's development of literacy, quantification, and inquiry skills.
- b. Offer instruction in an integrated day format.
- c. Assess educational progress from a portfolio perspective.
- d. Use educational materials in an open-ended fashion.
- e. And recognize and respect the diversity of family structures within our society.

The program involves a large field-based component and makes significant use of the UVM Campus Children's Center and elementary schools as practicum sites. Graduates of the program who successfully complete all requirements are eligible for licensure from the State of Vermont.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The PreK-3 Professional Preparation Sequence involves three components. The first is a course in Child Development and a course in Family Relations. The child development course introduces students to the concepts that form the practical and theoretical foundation of the program's educational approach. The family relations course provides

- Education students a foundation in family dynamics and parent-child relationships and serves to emphasize the important links between children's home and school experiences.
- Graduate College These two courses are taken prior to formal admission into the PreK-3 program.
  - Honors College The second component is a three-part professional practices sequence. This sequence provides students a first exposure to the rationale, practices, and procedures used in the provision of developmentally appropriate educational experiences for young children.
  - School of Business Administration The sequence includes opportunities for observation and hands-on work with children, opportunities to assist teachers in the provision of developmentally appropriate educational experiences and to discuss with teachers and other professionals the issues surrounding the provision of developmentally appropriate educational experiences.
  - The Rubenstein School of Environment and Natural Resources

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#### Policies and General Information

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The professional practices sequence is structured as three course blocks, taken sequentially. The first block course deals with techniques for observing and documenting children's development; the second deals with developmentally appropriate educational practices for children through age six (preschool/kindergarten); and the third for children between the ages of six and eight years (grades one through three). A significant portion of this professional practices sequence takes place in one or more preschools and elementary schools.

The third component is a two-semester student teaching sequence across the birth to eight-year age (preschool through grade three) range. This student teaching experience provides the opportunity to develop, implement, and assess (both in a cooperative and an independent fashion) developmentally appropriate educational practices. One experience would be in the Campus Children's Center and the other would be in a child centered, inclusionary grade K-3 setting.

The course of study consists of 128 credits which are divided into eight categories:

- Major concentration in a liberal arts and sciences discipline
- General Education courses
- Professional Preparation Sequence
- Health and Physical Education modules
- Race and Culture course
- Multicultural Electives
- Physical Education Electives
- Electives\*

\* The number of electives depends on the degree of course overlap in the General Education, major concentration, and the multicultural requirements.

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<u>EDSS 011 Race &amp; Culture</u>		1

<u>EDEC 001 Intro to Early Education</u>		4
<u>EDEC 063 Child Development</u>	3	
<u>HDFS 60 Family Context of Development</u>		3
Physical Education Elective	1	
Major Concentration	3	3
General Education Electives	9	6
Total	16	17
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 100 Inquiry and Pedagogy in Early Education</u>	10	
<u>EDEC 189 Early Childhood Practices</u>		12
<u>EDPE 197 Readings &amp; Research (or PEAC 021 Walking for Fitness)</u>	1	
General Education Electives	3	
Major Concentration	3	3
Physical Education Elective		1
Total	17	16
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 296 Field Experience</u>		3
<u>EDEL 156 Teaching Math for Meaning</u>		3
<u>EDEL 176 Language Arts &amp; Literacy Skills</u>		3
<u>EDEL 177 Children's Lit &amp; Literacy</u>		2
<u>EDSP 5 Issues Affecting Persons with Disabilities</u>	3	
Major Concentration	6	3
General Education Electives	6	
Multicultural Elective		3
Total	15	17
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 187 Field Practicum</u>		12
<u>EDEL 187 Planning Adapting and Delivering Reading Instructions</u>		3
Major Concentration	9	
General Education Electives	3	
Multicultural Elective	3	
Total	15	15

## Affiliations

- Colleges and Schools:[College of Education and Social Services](#).
- Departments and Programs:[Integrated Professional Studies Department](#).

[\[Location\]](#)

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Colleges and Schools > College of Education and Social Services > Academic Offerings > Teacher Education: Early Childhood Special Education (Birth-Age 5) (B.S.)

## Teacher Education: Early Childhood Special Education (Birth-Age 5) (Bachelor of Science)

### Overview

The Early Childhood Special Education (ECSP) Program is designed to provide students with the perspectives and skills necessary to work with young children from birth through kindergarten and their families in a range of family-centered, culturally responsive, inclusionary and developmentally appropriate settings. These include the ability to:

- Promote children's learning and development within natural environments and/or inclusive settings;
- Recognize and respect the diversity of family structures, preferences, and participation levels;
- Offer instructional practices that are guided by and sensitive to the family and child, supported by meaningful assessment information, and linked to developmentally and/or individually appropriate curricula;
- Strive to foster collaborative relationships with family members, peers of the same discipline, and individuals across disciplines.

The ECSP program builds upon the early childhood competencies obtained through the PreK Early Childhood program and involves a large field-based component which makes significant use of the wide array of early intervention and early childhood services and supports within the campus community (UVM Campus Children's Center) as well as throughout the local community and region.

### General Requirements

- Education
  - [College of Education and Social Services Degree Requirements](#)
  - [Requirements for All Undergraduate Degree Students](#)
- Graduate College
- Honors College

### Specific Requirements

- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

The Early Childhood Special Education professional preparation sequence involves three components. The first is a course in Child Development and a course in Family Relations. The child development course introduces students to the concepts that form the practical and theoretical foundation of the program's educational approach. The family relations course provides students a foundation in family dynamics and parent-child relationships and serves to emphasize the important links between children's home and school experiences. These two courses are taken prior to formal admission into the ECSP Program.

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#### Policies and General Information

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The second component is the professional practices sequence. This sequence provides students exposure to the rationale, practices, and procedures used in the provision of developmentally appropriate educational experiences for all young children. The sequence includes opportunities for observation and hands-on work with children, opportunities to assist teachers in the provision of developmentally appropriate educational experiences, opportunities to learn appropriate strategies for the assessment of children with special needs, opportunities to gain an understanding of the legal mandates and best practice guidelines governing the provision of educational services to young children with special needs, and opportunities to learn effective strategies for collaborating with families and other professionals on the issues surrounding the provision of natural learning experiences within developmentally appropriate educational experiences.

The third component is a two-semester student teaching sequence across the birth thru kindergarten age range. This student teaching experience provides the opportunity to develop, implement, and assess (both in a cooperative and an independent fashion) developmentally appropriate educational practices. One experience would be in the UVM Campus Children's Center and the other would either be in a community based, child centered, inclusionary, early childhood setting or through a program providing specialized services to infants and toddlers with special needs and their families in natural environments (e.g., home settings, play groups, etc.).

The course of study consists of 128 credits which are divided into eight categories:

- Major concentration in a liberal arts and sciences discipline
- General Education courses
- Professional Preparation Sequence
- Health and Physical Education modules
- Race and Culture course
- Multicultural electives
- Physical Education electives
- Electives\*

\* The number of electives depends on the degree of course overlap in the General

Education, major concentration, and the multicultural requirements.

## Curriculum

<b>FIRST-YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 063 Child Development</u>	3	
Physical Education Elective	1	
Major Concentration	3	3
General Education Electives	9	6
<u>EDEC 001 Intro to Early Education</u>		4
<u>HDFS 060 Family Context of Development</u>		3
Race & Culture		1
<b>Total</b>	<b>16</b>	<b>17</b>
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 100 Inquiry and Pedagogy in Early Education</u>	10	
General Education Electives	3	
<u>EDPE 197 Issues in Health Education (or PEAC 021 Walking for Fitness)</u>	1	
Major Concentration	3	
<u>EDEC 189 Early Childhood Practices</u>		12
<u>EDSP 005 Issues Affecting Persons w/ Disabilities</u>		3
Physical Education Elective		1
<b>Total</b>	<b>17</b>	<b>16</b>
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>ECSP 211 Assmt Intervention Early Childhd Spec Ed</u>	4	
Major Concentration	6	
General Education Electives	6	3
<u>CMSI 094 Develop of Spoken Language</u>		3
<u>ECSP 202 Infants, Toddlers &amp; Preschl w/ Dis</u>		3
<u>ECSP 210 Mtg Curr Needs of Children w/ Dis</u>		4
Multicultural Elective		3
<b>Total</b>	<b>16</b>	<b>16</b>
<b>SENIOR YEAR</b>		



Course	Term	
	Fall	Spring
Multicultural Elective	3	
Major Concentration	12	3
<u>ECSP 187</u> Field Practicum		12
Total	15	15

### Affiliations

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Integrated Professional Studies Department.

[Location]

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Colleges and Schools > College of Education and Social Services > Academic Offerings > Teacher Education: Elementary Education (K-6) (B.S.)

## Teacher Education: Elementary Education (K-6) (Bachelor of Science)

### Overview

The Elementary Education Program prepares teachers for assignments in grades kindergarten through six. The Bachelor of Science in Education is awarded upon satisfactory completion of the approved program which includes a planned sequence of professional courses, field experiences, and a full-semester internship experience.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Elementary Education Program is a designed sequence of professional course work that achieves coherence from its theme "teaching all children strategically in diverse communities." Embedded in a state known for its progressive schooling traditions, Elementary Education students have ample opportunity to learn about and practice the art and science of teaching. Through a web of unique relationships with area schools, Elementary Education majors build friendships with a diverse variety of children by the second year of their professional program.

### Several features distinguish the program:

*Blocked Professional Course Work:* Grounded in a theoretical orientation that seeks to limit the necessity for piecemeal education, faculty of the program have designed course work that fits together in naturally occurring curricular blocks: literacy (reading/writing, children's literature, mathematics), inquiry (social education, science, visual and

Education performing arts), and the professional internship (student teaching, classroom management, and portfolio development).

- Graduate College

- Honors College

- School of Business Administration

- The Rubenstein School of Environment and Natural Resources

*Integrated Fieldwork:* Professed theory about teaching is constantly exposed to the reality of public school practice. Each curriculum block has field experience attached to it. Students are thus placed in situations where theory and practice reside in reciprocal tension.

*Authentic Assessment:* The State of Vermont requires a results-oriented demonstration of teaching competence to qualify for the teaching license. The Elementary faculty have built in portfolio driven authentic assessments at every step of the professional program. Interns thus learn the portfolio process from the inside out and are able to apply it to themselves while learning to apply it within their public school classes.

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Policies and General Information

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*Full Inclusion:* The State of Vermont has the highest rate of inclusion of learners with special challenges in the regular classroom setting. Being educated at UVM means elementary education students learn about and practice the application of instructional adaptations for learners of exceptional need.

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Faculty and Administration

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*Elementary Education Curriculum:* The elementary education curriculum includes a general education component of 60 credits from the academic areas outlined earlier. Included in the 60 hours must be two semester hours of physical education activities. Students are required to complete an approved major concentration, consisting of at least 30 hours of study in a liberal arts and sciences discipline. Specific information may be obtained from advisors or from the Office of Student Services, 528 Waterman. In addition to the major concentration and professional education requirements, certain courses are recommended to meet specific state and national requirements in elementary education.

Full-time students enroll in 12 to 18 credits. Elementary education students enroll in the required education courses each semester, along with several additional required courses.

## Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<u><a href="#">EDEL 010 - Intro to Teaching &amp; Learning</a></u>	1	1
<u><a href="#">EDEL 011 - Computers in El. Ed. Classroom</a></u>	3	or 3
<u><a href="#">EDEL 024 - Learners and Learning Process</a></u>	3	or 3
Major Concentration	3	6
PEAC	1	or 1
Diversity	1-3	or 1-3
General Education Electives	6	6
	12-	12-

Total	18	18
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<sup>1</sup> <u>EDEL 056 - Teachers &amp; the Teaching Process</u>	3	or 3
<sup>1</sup> <u>EDEL 178 - Meeting Indiv. Needs: Assessment and Instruction</u>	2	or 2
<sup>1</sup> <u>EDSP 005 - Issues Affecting Persons With Disabilities</u>	3	or 3
<u>EDPE 197 - Issues in Health Education</u>	1	or 1
<u>EDPE 100 - Integrating Movement Across the Elementary School Curriculum</u>	2	or 2
Major Concentration	3	6
PEAC	1	or 1
General Education Electives	6	6
Total	12-18	12-18
<p>During the sophomore year, students must complete an Application to Teacher Education form available in 533 Waterman Building. Students will follow requirements specified in the Application to Teacher Education. Students will not be permitted to enroll in advanced education courses until they have been accepted to teacher education. The advanced courses include:</p>		
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<sup>2</sup> <u>EDEL 155 - Lab Experience in Inquiry</u>	3	or 3
<sup>3</sup> <u>EDEL 156 - Teaching Math for Meaning</u>	3	or 3
<sup>2</sup> <u>EDEL 157 - Social Ed. &amp; Social Studies</u>	2	or 2
<sup>2</sup> <u>EDEL 158 - Teaching Science for Meaning</u>	2	or 2
<sup>2</sup> <u>EDEL 159 - Visual &amp; Performing Arts, K-6</u>	2	or 2
<sup>3</sup> <u>EDEL 175 - Lab Experience in Literacy</u>	3	or 3
<sup>3</sup> <u>EDEL 176 - Language Arts &amp; Literacy Skills</u>	3	or 3
<sup>3</sup> <u>EDEL 177 - Children's Literature and Literacy</u>	2	or 2
<sup>4</sup> <u>EDEL 187 - Planning, Adapting and Delivering Reading Instructions</u>	3	or 3
Major Concentration	3	3
Electives	3	3
Total	12-18	12-18
<p>Students are required to complete a student teaching internship application in their junior year before being assigned a placement as</p>		

seniors. Students will be notified by the Elementary Education Program (656-3356) of a general meeting and are expected to attend to initiate this process. Students will follow requirements specified in the Application to Student Teaching. The course work for this stage of the program follows

### SENIOR YEAR

Course	Term	
	Fall	Spring
<sup>5</sup> <u>EDEL 185</u> EDEL 185 - Student Teaching Internship	12	or 12
<sup>5</sup> <u>EDEL 188</u> EDEL 188 - Principles of Classroom Management	2	or 2
<sup>5</sup> <u>EDEL 189</u> EDEL 189 - Portfolio Development & Reflective Practice	1	or 1
<u>EDFS 203 - Social, Hist. &amp; Phil. Foundations of Education</u>	3	or 3
Major Concentration	6	or 6
Electives	6	or 6
Total	12- 18	12- 18

A minimum of 127 approved credit hours is required for the degree.

#### Notes:

<sup>1</sup> Courses taken concurrently

<sup>2</sup> Courses taken concurrently

<sup>3</sup> Courses taken concurrently

<sup>4</sup> EDEL 187 must be taken after completion of the Literacy Block and prior to student teaching.

<sup>5</sup> Courses taken concurrently

#### Affiliations

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Education Department.

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Colleges and Schools > College of Education and Social Services > Academic Offerings > Teacher Education: Family and Consumer Sciences Education (7-12) (B.S.)

## Teacher Education: Family and Consumer Sciences Education (7-12) (Bachelor of Science)

### Overview

The Family and Consumer Sciences Education Program is an interdisciplinary program that includes a sequence of courses in: family, personal, and consumer issues, food and nutrition, consumer management, human development, and housing. The variety of courses taken for the major expands career possibilities.

Because of the interdisciplinary and comprehensive scope of Family and Consumer Sciences Education, graduates with this major have a variety of career alternatives in business, social agencies, and different types of educational programs for youth and adults. Graduates are licensed to teach in public schools in Family and Consumer Sciences fields such as family studies, child development, consumer education, food and nutrition, housing and interiors, and resource management found in middle, junior, and high school programs.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">HDFS 005 - Human Development</a>	3	
<a href="#">NFS 043 - Fundamentals of Nutrition</a>	3	
Physical Education Elective	1	

Education	General Education Electives	9	6
• Graduate College	<a href="#">EDSS 011 - Race and Culture</a>		1
• Honors College	<a href="#">HDFS 060 - Family Context of Development</a>		3
• School of Business Administration	<a href="#">NFS 053 - Basic Concepts of Food / NFS 054 - Basic Concepts of Food Lab</a>		4
	Major Concentration		3
• The Rubenstein School of Environment and Natural Resources	Total	16	17
	<b>SOPHOMORE</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EDFC 123 - Methods in Nutrition Education</a>	3	
Policies and General Information	<a href="#">EDSP 005 - Issues Affecting Persons with Disabilities</a>	3	
	<a href="#">NFS 143 - Nutrition in the Life Cycle</a>	3	
Faculty and Administration	Physical Education Elective	1	
	CDAE Elective	3	
Catalogue Archives	General Education Electives	3	3
	Elective		3
	<a href="#">CDAE 015 - Design Strategies</a>		3
	HDFS Elective		3
	Major Concentration		3
	Total	16	15
	<b>JUNIOR YEAR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	* Literacy Requirement	3	
	<a href="#">EDFC 220 - Observ &amp; Part in Public Schools</a>	3	
	Housing Requirement	3	
	Major Concentration	6	9
	<a href="#">EDFC 221 - Management of School Youth Org.</a>		2
	General Education Elective		3
	Elective		3
	Total	15	17
	* <a href="#">EDSC 215</a> , <a href="#">EDEL 177</a> (Middle Level section only) or <a href="#">EDLT 236</a>		
	<b>SENIOR YEAR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EDFC 225 - Teaching Practicum</a>	12	
	<a href="#">EDFC 222 - Curr. Dev. in Human Sciences</a>		3
	<a href="#">EDFC 224 - Eval Tech in Human Sciences</a>		3
	Major Concentration		9

Total	12	15
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## Affiliations

- Colleges and Schools:[College of Education and Social Services](#).
- Departments and Programs:[Integrated Professional Studies Department](#).

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Colleges and Schools > College of Education and Social Services > Academic Offerings > Teacher Education: Middle Level Education (5-9) (B.S.)

## Teacher Education: Middle Level Education (5-9) (Bachelor of Science)

### Overview

The organizing theme of the Program is "Education for High Achievement and Personal Efficacy." The Program provides a minimum of four supervised internships whereby university students participate in the most highly successful middle level school programs that are within reasonable commuting distance.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Students who satisfactorily complete the program earn a minimum of 127 credit hours of study across three areas: General Education, Academic Concentration, and Professional Studies. This design ensures that each student achieves a balance of academic and professional preparation to meet the expectations and challenges associated with teaching at any level. During the students' first year they enroll in a required two semester advising course, [EDML 10](#) "Introduction to Teaching," where faculty guide them in devising an eight semester plan that is balanced across three areas of study. Those three areas are briefly described below.

*General Education:* Students earn at least 39 credits in liberal arts and sciences from an array of disciplines such as: English, Mathematics, Social Science, History, Political Science, Humanities, Diversity, Art and Physical Education. Six credits are designated as Electives. Most of these courses are generally completed during the first three to four semesters, and since students sometimes transfer from one program to another, these

Education credits easily transfer to other degree programs in the College of Education and Social Services as well as other colleges within the University.

- Graduate College

- Honors College

- School of Business Administration

- The Rubenstein School of Environment and Natural Resources

*Academic Concentration:* Every Teacher Education student is required to complete an academic major referred to as a "major concentration." Students enrolled in the Middle Level Program organize their concentration around two disciplines in order to accomplish the middle level licensure requirement for two teaching areas. This design is referred to as an IDIMC (Individually Designed Interdisciplinary Major Concentration), and it consists of 18 credits in each of two disciplines for a total of 36 credits. For example, one student might choose to combine Science and English while another decides on Mathematics and Social Studies. These academic combinations enable a student to teach in multiple areas as a member of a middle level team consisting of two to five or more teachers. Program advisors and students work closely together, especially over the first two years, to design an IDIMC that accommodates the student's interests and fits the needs of middle level teachers.

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Policies and General Information

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*Professional Studies:* Courses that concentrate on the professional work of teaching, span all four years. These studies are grounded in theory, research and policies associated with the very best practices in middle level education. Studies of young adolescent learning and development, teachers and teaching, literature for young adult readers, special education and technology are taken in the first two years as Pre-Professional Requirements. These courses include a minimum of one field placement with a middle level team of teachers. More heavily field-linked courses in curriculum, pedagogy, assessment, team organization, literacy, mathematics, and evaluation and assessment are taken the last two years. Required professional courses over four years total of 52 credits.

*Fieldwork:* The faculty is committed to providing students as much field experience as possible and practical. Four courses ([EDML 56](#), [EDML 171](#), [EDML 261](#), [EDML 285](#)) are primarily field-based, and while taking these courses students will enjoy working with teachers on four different teaching teams. Emphasis is placed on high levels of integration between campus-based learning and field experience to insure that students are sufficiently oriented and prepared for the real work of exemplary middle level schools.

*Cohort:* Cooperation and collaboration among teachers is a hallmark of middle level teaching teams. That same spirit is given emphasis through building a cohort of middle level teacher education students who receive group advising, who take courses together, and who participate in professional activities such as school events and professional conferences. Additionally, the Middle Level Teacher Education Program includes a Teacher Advisory Committee composed of exemplary middle level teachers from area schools who consult with students and faculty about the Program, field placements, job searches and other issues related to advancing one's professional development and beginning career.

*Professional Portfolio:* In the aforementioned EDML 10 course, students are introduced to the process of documenting and preserving samples of their professional work and development. These samples are maintained in individual portfolios that grow

cumulatively semester by semester. A final Professional Portfolio is assembled during the student teaching semester to more fully define the professional background and aspirations of the novice teacher. These final portfolios constitute completion of the Program, and they are valuable to seniors reflecting on their preparation and accomplishments as well as beginning a job search. These full portfolios are drawn upon to create a more succinct "presentation portfolio" for use in interviews. Seniors also receive faculty guidance in creating resumes and applying and interviewing for teaching positions. The demand for teachers well prepared for teaching middle level schools is such that the portfolio is an excellent and comprehensive way to present one's candidacy.

## Curriculum

<b>FIRST YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
Diversity	1	
<u>EDEL 11</u> - Computers in El. Ed. Classroom	3	
<u>EDML 10</u> - Introduction to Teaching	1	1
Physical Education Elective	1	1
General Education Electives	9	6
<u>EDML 24</u> - Learners, Development & Learning		3
IDIMC		6
Total	15	17
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDML 56</u> - Teachers & the Teaching Process	3	
<u>EDSP 5</u> Issues Affecting Persons with Disabilities	3	
<u>EDEL 177</u> Children's Lit. & Literacy	2	
IDMIC	6	6
General Education Electives	3	6
Electives		3
Total	17	15
<b>JUNIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDML 260</u> Teaching Young Adolescents	6	
<u>EDML 261</u> Teaching Practicum I	3	
IDIMC	6	6
Electives	3	3
<u>EDML 270</u> Middle School Organization and Pedagogy		6
<u>EDML 171</u> Teaching Practicum II		3

Total	18	18
<b>SENIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDFS 203</u> Soc Hist & Phil Found of Ed	3	
IDIMC	6	
Electives	3	
<u>EDML 285</u> Student Teaching Internship		12
<u>EDML 286 - Internship Support Seminar</u>		1
<u>EDML 287</u> Literacy & Mathematics		3
Total	12	16

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- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Education Department.

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Colleges and Schools > College of Education and Social Services > Academic Offerings > Teacher Education: Music Education (K-12) (B.S.)

## Teacher Education: Music Education (K-12) (Bachelor of Science)

### Overview

The College works cooperatively with the [Music Department](#) in the [College of Arts and Sciences](#) to offer a program in Music Education which leads to both degree and licensure for grades K-12.

The curriculum in music education, leading to the degree of Bachelor of Science in Music Education, is recommended to students who have sufficient training and musical ability to justify a career in music. Prospective students must audition before entering the program. Those admitted as first-year students or sophomores to the Music Education program are considered Candidates in the program. Admission as a Major is made at the beginning of the junior year following formal review procedures during the second semester of the sophomore year. Graduates are qualified for positions as instructors of music in public schools.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 128 approved semester hours is required for the degree including three semester hours of teaching reading for teaching licensure. Students must pass the piano proficiency and the PRAXIS I examinations prior to student teaching. Students are responsible for obtaining information regarding teaching licensure and degree requirements from the College of Education and Social Services' Office of Student Services, 528 Waterman , or [Student Services Web site](#)

## Education

Pedagogy classes are taken as available.

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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## Curriculum

<b>FIRST-YEAR</b>		
Course	Credits	
	Fall	Spring
<u>HDFS 005 - Human Development</u> or <u>EDEC 063 - Child Development</u>	3	
<u>MU 022 - Group Piano</u>	1	
<u>MU 053 - Harmony and Form I</u>	3	
<u>MU 054 - Harmony and Form Lab I</u>	1	
<u>MU 077 - String Methods</u> or <u>MU 079 - Percussion Methods</u>	2	
<u>MU 133 - MU 140 Applied Lessons Ensemble</u>	2	2
Ensemble	1	1
General Education Electives (Math, Science)	3	3
<u>EDSS 011 - Race and Culture</u>		1
<u>MU 023 - Group Piano</u>		1
<u>MU 055 - Harmony and Form II</u>		3
<u>MU 056 - Harmony and Form Lab II</u>		1
<u>MU 076 - Brass Methods</u> or <u>MU 078 - Woodwind Methods</u>		2
<u>MU 080 - Vocal Pedagogy</u>		2
<u>MU 085 - Intro to Music Education</u>		1
Physical Education Elective		1
Total	16	18
<b>SOPHOMORE<sup>1</sup></b>		
Course	Term	
	Fall	Spring
<u>MU 060 - Intro to Music Technology</u>	3	
<u>MU 077 - String Methods</u> or <u>MU 079 - Percussion Methods</u>	2	
<u>MU 111 - Music History &amp; Literature I</u>	3	
<u>MU 153 - Harmony and Form III</u>	3	
<u>MU 154 - Harmony and Form Lab III</u>	1	
General Education Elective (Humanities or Social Science)	3	

<u>MU 133 - MU 140 Applied Lessons</u>	2	2
Ensemble	1	1
<u>MU 076 - Brass Methods</u> or <u>MU 078 - Woodwind Methods</u>		2
<u>MU 112 - Music History &amp; Literature II</u>		3
<u>MU 155 - Harm &amp; Form IV:20th C Tech</u>		3
<u>MU 156 - Harmony and Form Lab IV</u>		1
<u>MU 181 - Conducting</u> or <u>MU 253 - Orchestration</u>		3
Physical Education Elective		1
Total	18	16
<b>JUNIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MU 251 - Advanced Theory:Counterpoint</u>	3	
<u>MU 280 - Hist/Phil Fnd Music Educ</u> or <u>MU 281 - Advanced Conducting</u>	3	
<u>EDSP 005 - Iss Aff Persons W/Disabilities</u>	3	
General Education Electives (Humanities or Social Science)	3	
<u>MU 141 - MU 144 Applied Lessons</u>	2	2
Ensemble	1	1
Electives		5
<u>MU 276 - Elem Music Educ Methods</u>		3
<u>MU 181 - Conducting</u> or <u>MU 253 - Orchestration</u>		3
* Literacy Requirement		3
Total	15	17
* <u>EDSC 215</u> , <u>EDEL 177</u> (Middle Level Section only) or <u>EDLT 236</u>		
<b>SENIOR<sup>2</sup></b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MU 141 - MU 144 Applied Lessons</u>	2	
<u>MU 250 - Senior Recital</u>	1	
<u>MU 278 - Sec Music Educ Methods</u>	3	
<u>MU 280 - Hist/Phil Fnd Music Educ</u> or	3	

<u>MU 281 - Advanced Conducting</u>		
<u>EDFS 203 - Soc, Hst &amp; Phil Found of Educ</u>	3	
Electives	3	
Ensemble	1	
<u>MU 290 - Teaching Internship</u>		12
Total	16	12

### Notes:

1. Students apply to the Music Education major during the second semester of their sophomore year.
2. Students are required to complete a student teaching internship application before being assigned a placement.

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- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Education Department.

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## Teacher Education: Physical Education (K-12) (Bachelor of Science)

### Overview

The Professional Physical Education Program qualifies candidates for licensure to teach in grades K-12. Course work around the program theme, Moving and Learning, includes a series of courses designed to provide a background to the field of physical education. Specialty courses assist the student in the development of physical education program content and teaching skills important in providing developmentally appropriate programs of physical education to children and youth in today's schools. Laboratory experiences in schools throughout the program aid students in recognizing the relationship between theory and practice.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Courses in general education and professional education as well as a liberal arts and sciences major/major concentration are required. A major concentration in Exercise and Sport Science is available to students in the Physical Education program.

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">EDPE 021 - Foundations of Phys. Ed.</a>	3	

Education	<a href="#">EDHE 046 - Personal Health</a>	3	
• Graduate College	<a href="#">PEAC 050 - Individual Sports</a>	1	
	<a href="#">PEAC 125 - Team Sports 1</a>	1	
• Honors College	Major Concentration	3	6
• School of Business Administration	General Education Electives	6	6
	<a href="#">PEAC 070 - Racquet Sports</a>		1
	<a href="#">PEAC 126 - Team Sports 2</a>		1
• The Rubenstein School of Environment and Natural Resources	<a href="#">EDPE 157 - Care &amp; Prevent. Athletic Injury</a>		3
	Total	17	17
<b>SOPHOMORE</b>			
Policies and General Information	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
Faculty and Administration		<b>Fall</b>	<b>Spring</b>
Catalogue Archives	<a href="#">EDPE 023 - ARC Emergency Response*</a>	3	
	<a href="#">HDFS 005 - Human Development</a>	3	
	<a href="#">ANPS 019 - Hum Anatomy &amp; Physiology</a>	4	
	<a href="#">PEAC 016 - Gymnastics</a>	1	
	<a href="#">PEAC 028 - Conditioning</a>	1	
	Major Concentration	6	6
	<a href="#">ANPS 020 - Hum Anatomy &amp; Physiology</a>		4
	<a href="#">PEAC 190 - Dance</a>		1
	<a href="#">PEAC 105 - Outdoor Recreation</a>		1
	<a href="#">EDPE 104 - Phys Ed Teaching Experience</a>		5
	Diversity		1
	Total	18	18
	*or evidence of American Red Cross Basic Emergency Response certification		
<b>JUNIOR YEAR</b>			
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EDPE 105 - Phys. Ed. Teaching Exper.</a>	5	
	<a href="#">EDPE 167 - Exercise Physiology</a>	4	
	<a href="#">EDPE 220 - Sport in Society</a>	3	
	<a href="#">EDPE 260 - Adapted Physical Activity</a>	3	
	General Education Electives	3	3
	<a href="#">EDPE 155 - Phys Ed in Secondary Schools</a>		3
	<a href="#">EDPE 166 - Kinesiology</a>		3
	<a href="#">EDPE 240 - Motor Skills Learning &amp; Control</a>		3
	Major Concentration		3
	Total	18	15
<b>SENIOR YEAR</b>			

Course	Term	
	Fall	Spring
* Literacy Requirement	3	
<u>EDFS 203 - Soc Hist &amp; Phil Found of Ed or EDFS Elective</u>	3	
Major Concentration	6	
Electives	3	
<u>EDPE 181 - Student Teaching</u>		12
<u>EDPE 182 - Student Teacher Seminar</u>		2
Total	15	14
* <u>EDSC 215</u> , <u>EDEL 177</u> (Middle Level Section only) or <u>EDLT 236</u>		

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## Teacher Education: Secondary Education (7-12) (Bachelor of Science)

### Overview

The Secondary Education Program prepares teachers to work with students with diverse needs in public school classrooms in grades 7-12. The curriculum includes general education; a major, a minor, or a broadfield major; a professional education component; and electives.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 124 approved semester hours is required for the degree. Specific requirements, including PRAXIS information, as approved by the State Department of Education, may be obtained from the Office of Student Services, 528 Waterman. Program information is also available from the Secondary Education Program, 405A Waterman or on the [Web](#) .

During the first two years, students enroll in a CESS course each semester, concentrating on completing their general education, major, and minor requirements while also taking selected coursework in education. The majority of professional education coursework is completed in the junior and senior years.

**General Education Component** (Minimum of 27 credits): The general education courses must include the following courses. Two semester hours of physical education activities must be included.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

- English Composition and English Literature
- Science
- Mathematics
- U.S. History
- American Government
- PSYC 1
- Humanities (Philosophy, Religion, Foreign Language)
- Physical Education activities
- Race and Culture

Academic Major and Minor Components (major minimum of 30 credits, minor minimum of 18 credits or broadfield major of 48-52 credits): Students who successfully complete their Teacher Education programs are recommended for licensure with a first endorsement in their major, and may apply directly to the State Department of Education for an endorsement to also teach their minor. Students are therefore encouraged to select a minor which is also a licensure area.

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**Professional Education Component** (45 credits): By the time students begin the professional education component of their program as juniors, they should have completed most of their general education requirements, have taken 12 credits of professional education coursework, and be well into their academic major (15-18 credits completed) and their academic minor (six-12 credits completed). Students must complete the remainder of their requirements as they complete the following phases of the professional education component:

- I. Exploring Learners' Needs in the Context of Schools: [EDFS 203](#), [EDSC 207](#), [EDSC 209](#).

Following completion of this first phase, students must submit their Initial Portfolio and their application to the Teacher Education Program. The Initial Portfolio documents learning, professional knowledge, collegiality, advocacy and accountability. Provided the Initial Portfolio is assessed as satisfactory, the student has achieved passing scores on PRAXIS I, and has a minimum 2.5 GPA overall, 2.5 in his or her major, and was successful in [EDFS 203](#), [EDSC 207](#) and [EDSC 209](#) (3.0 or better), the student is accepted into Teacher Education and may begin work on the second phase of the program.

- II. Designing and Adapting Instruction: [EDSC 215](#), [EDSC 216](#) and subject methods.

Subject methods for major: [EDSC 225](#) (Social Studies), [EDSC 227](#) (Science), [EDSC 240](#) (English), [EDSC 257](#) (Mathematics), or [EDSC 259](#) (Foreign Languages).

During this phase of the program, prior to student teaching, students must have an overall GPA of 3.0 and a minimum GPA of 2.75 in their major. Following a successful faculty review of a student's records, he or she is nominated for a placement. Students must complete the interview process for placement by the school in order to be confirmed for student teaching. Students complete a

semester of full-time student teaching as the third phase of the program. (In some cases, students must arrange to live off-campus during the student teaching semester.)

### III. Achieving Results in Schools: [EDSC 226](#), [EDSC 230](#).

As students complete their degree program, they must submit their Licensure Portfolios which document competence with program and state licensure requirements (ROPA). Recommendation for licensure is based on successful completion of student teaching, an overall grade-point average of 3.0, as well as on submission of a satisfactory Licensure Portfolio, and meeting state accreditation standards.

**Student's Responsibility:** Information about application and assignment procedures for the Secondary Education Program may be obtained from 405A Waterman Building. Students are responsible for obtaining information regarding the process and requirements, and for notifying the office as to changes in their status, address, or intentions for completion of their program.

**Language Proficiency:** A Language Proficiency Test is required for the Secondary Education Foreign Language majors.

**Speech/Theatre:** All students must demonstrate competence in the area of speaking by taking a speech or theatre course or by submitting evidence of competence (go to 405A Waterman Building for more information).

## Curriculum

FIRST YEAR		
Course	Credits	
	Fall	Spring
<a href="#">EDSC 50 - Exploring Education</a>	3	
<a href="#">EDSS 011 Race &amp; Culture</a>	1	
Minor	3	
Major	3	6
General Education Electives	6	6
<a href="#">EDSP 5 - Issues Affecting Persons with Disabilities</a>		3
Physical Education Elective		1
Total	16	16
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">EDSC 11 - Educational Technology in the Secondary Education Classroom</a>	3	
Physical Education Elective	1	

Major	3	6
General Education Electives	9	3
Field-based experience (advisor approved CESS elective)		3
Minor		6
Total	16	18
<b>JUNIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDFS 203 - Soc Hist &amp; Phil Found of Ed</u>	3	
<u>EDSC 207 - Adolescent Learning from a Behavioral &amp; Cognitive Perspective</u>	3	
<u>EDSC 209 - Practicum in Teaching</u>	3	
Major	6	6
<u>EDSC 215 - Reading in Secondary Schools</u>		3
<u>EDSC 216 - General Methods for Sec Teachers</u>		3
Special Methods		3
Minor		3
Total	15	18
<b>SENIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDSC 226 - Teaching Internship</u>	12 <sup>1</sup>	12 <sup>1</sup>
<u>EDSC 230 - Teaching for Results</u>	3 <sup>1</sup>	3 <sup>1</sup>
Electives	4 <sup>1</sup>	4 <sup>1</sup>
Minor	6 <sup>1</sup>	6 <sup>1</sup>
Total	12- 18	12- 18

<sup>1</sup> Take Fall or Spring

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- Colleges and Schools:College of Education and Social Services.
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## Education Department

### Contact Information

University of Vermont  
 Education Department  
 533 Waterman Building  
 85 S. Prospect St.  
 Burlington, VT 05405-0160

Phone: (802) 656-3356  
 Fax: (802) 656-0004  
 Email: [James.Mosenthal@uvm.edu](mailto:James.Mosenthal@uvm.edu)

[Web Site](#)

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## Athletic Training Education (Bachelor of Science)

### Overview

The purpose of the Athletic Training Education Program (ATEP) is to provide students the knowledge and practical skills to enter the profession of athletic training. Athletic Training is an academic major at UVM and provides students with an all-encompassing education fitting of a medical profession. The undergraduate program at the University of Vermont has been approved by the National Athletic Trainer's Association (NATA) since 1979 and is currently accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). It is designed to provide the undergraduate student with professional preparation and eligibility to sit for the National Athletic Trainer's Association Board of Certification (NATABOC) examination. Certified athletic trainers are highly trained medical professionals qualified to work in a number of settings to enhance the quality of health care for athletes and those engaged in physical activity. Working closely with physicians and other allied health professionals, their expertise includes the prevention, evaluation, management, and rehabilitation of injuries incurred by the physically active.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

In addition to coursework, students are required to complete a minimum of 800 hours of clinical experience under the direct supervision of certified athletic trainers on campus and at local off-campus affiliate sites.

The required 800 clinical experience hours is based upon three years in the program (second through fourth). First year students are required to

- Education
- Graduate College
- Honors College
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- The Rubenstein School of Environment and Natural Resources

participate in an introductory period of directed observation experience of 60 hours. During this time, the student becomes acquainted with the various daily duties and routines of the staff and athletic training students, the operations of the training room and basic athletic training skills. Once admitted to the ATEP, students are assigned to Approved Clinical Instructors. These assignments include team practice and game coverage, team travel, and sports therapy clinic coverage. Students also have the option of a number of other practical experiences during their final year including observing in surgery or emergency room, orthopedic research, emergency rescue squad runs, etc. Each student is evaluated at regular intervals and must demonstrate mastery of educational competencies to continue with the next assignment.

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#### Policies and General Information

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Admission to the program is contingent upon successful completion of 60 hours of directed observation, pre-admission coursework, overall GPA, and an interview with the program faculty. Students are also required to submit a formal application to the program director. In addition, students must meet technical standards consistent with the practice of Athletic Training as a profession. These standards are published in the Athletic Training Education Program Policies and Procedures Manual. Due to accreditation standards, the program is selective and space limited. A competitive review of applicants takes place at the end of each academic year by the Athletic Training Education Committee. Advanced Placement in the ATEP is available to transfer students with prior experience and coursework relative to Athletic Training. Guidelines for the advanced placement application are available through the program director.

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#### Faculty and Administration

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#### Catalogue Archives

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### Curriculum

First Year		
Course	Credits	
	Fall	Spring
<a href="#">MLRS 003</a> Medical Terminology	1	
<a href="#">ENGS 001</a> Written Expression	3	
<a href="#">MATH 009</a> or higher	3	
<a href="#">PHYS 011</a> Elementary Physics I	4	
<a href="#">PHYS 021</a> Introductory Lab	1	
<a href="#">EDPE 023</a> Amer Red Cross Emergency Response	3	
<a href="#">PEAC 028</a> Conditioning	1	
<a href="#">EDPE 157</a> Care and Prevention of Athletic Injuries		3
<a href="#">EDPE 158</a> Directed Observation in Athletic Training		2
<a href="#">EDHE 046</a> Personal Health		3
<a href="#">PHYS 012</a> Elementary Physics II		4

<u>PHYS 022</u> Introductory Lab		1
<u>NFC 043</u> Fundamentals of Nutrition		3
PEAC Elective		1
Total	16	17
<b>Sophomore Year</b>		
<b>Course</b>	<b>Fall</b>	<b>Spring</b>
<u>ANPS 019</u> Anatomy and Physiology I	4	
<u>AT 159</u> Practicum in Athletic Training I	2	
<u>AT 184</u> Evaluation and Recognition of Athletic Injuries I	4	
<u>PSYC 001</u> General Psychology	3	
<u>CHEM 023</u> Outline of General Chemistry	4	
<u>ANPS 020</u> Anatomy and Physiology II		4
<u>AT 160</u> Practicum in Athletic Training II		2
<u>AT 185</u> Evaluation and Recognition of Athletic Injuries II		4
<u>EDPE 166</u> Kinesiology		3
<u>SOC 019</u> Race Relation in the U.S		3
Total	17	16
<b>Junior Year</b>		
<b>Course</b>	<b>Fall</b>	<b>Spring</b>
<u>AT 161</u> Practicum in Athletic Training III	2	
<u>AT 186</u> Therapeutic Modalities	3	
<u>AT 195</u> Special Topics in Athletic Training	3	
<u>EDPE 167</u> Exercise Physiology	4	
<u>EDPE 168</u> Test and Measurement in Exercise and Sport Science	3	
<u>AT 162</u> Practicum in Athletic Training IV		2
<u>AT 187</u> Rehabilitation Techniques in Athletic Training		3
<u>AT 188</u> Administration in Athletic Training		2
<u>NFS 163</u> Sports Nutrition		3
<u>EDPE 265</u> Seminar in Exercise and Sport Science		3
Humanities Elective(PHIL, POLS, HIST)		3
Total	15	16
<b>Senior Year</b>		
<b>Course</b>	<b>Fall</b>	<b>Spring</b>
<u>AT 190</u> Internship in Athletic Training	6-12	
<u>MLRS 120</u> Health Care Ethics	3	
<u>EDPE 197</u> Readings and Research (required)	3	
<u>EDPE 241</u> Sport Psychology	3	
<u>AT 190</u> Internship in Athletic Training (or minimum 6 credits free electives)		6-12
Humanities Elective (PHIL, POLS, HIST)		3

<u>EDPE 267</u> Science of Strength Training, Conditioning, and Biomechanics		3
Total	15- 21	12- 18

### Affiliations

- Colleges and Schools:[College of Education and Social Services](#).
- Departments and Programs:[Education Department](#).

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## Education: Individually Designed Program (Bachelor of Science)

### Overview

Students enrolled in the College of Education and Social Services who are interested in an area of study, which isn't offered as one of the current options, may propose an individually designed program of study. Specific criteria and degree requirement information are available in 528 Waterman.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Affiliations

- Colleges and Schools:[College of Education and Social Services](#).
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## Special Education (Undergraduate Minor)

### Overview

The minor in special education is for undergraduate students wishing to learn more about special education in their career path, as well as enhancing their skills teaching students with diverse needs. Students apply to the minor through contacting the Special Education Program in the Department of Education.

### Specific Requirements

A total of 18 hours (6 courses) of coursework is required, at least 9 hours of which must be at the 100 level or above. Course offerings cover the areas of foundations of special education, assessment practices, and methods for supporting students with disabilities in general education classrooms.

#### For students in the College of Arts and Sciences:

A total of 18 hours of coursework is required, at least nine hours must be at the 100-level or above. Minor requirements include: [EDSP 5](#); at least two of the following courses [EDSP 217](#), [EDSP 224](#), [EDSP 280](#), [EDSP 290](#), [EDSP 295](#); and up to three electives (nine hours) may be chosen from the core courses above and the following electives [EDSP 200](#), [EDPE 260](#), [CMSI 1](#), [CMSI 2](#), [CMSI 20](#), [CMSI 94](#), [CMSI 285](#), [CMSI 299](#).

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- Colleges and Schools: [College of Education and Social Services](#).
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## Teacher Education: Art Education (K-12) (Bachelor of Science)

### Overview

The College works cooperatively with the Art Department in the College of Arts and Sciences to offer a program in Art Education which leads to both degree and licensure for grades K-12.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Students fulfill course requirements in general education, professional art education, professional education courses, studio art, art history, and related subjects. Graduates satisfy College of Education and Social Services requirements for teacher licensure and partake in coursework in the Art Department in the College of Arts and Sciences. The program allows sufficient additional advanced courses as recommended by the Art Department for admission to graduate school.

Students must be enrolled in the College of Education and Social Services. Those admitted as first-year students or sophomores to the Art Education Program are considered Candidates in the Program. Admission as Majors is made at the beginning of the junior year following formal review procedures during the second semester of the sophomore year.

Students must meet with their advisors and get approval to set up student teaching and accompanying courses prior to enrolling in student teaching.

## Education

A minimum of 124 approved semester hours is required for the degree including three semester hours of teaching reading for teacher licensure.

## • Graduate College

## • Honors College

Students are responsible for obtaining information regarding teacher licensure and degree requirements from the Office of Student Services, 528 Waterman, or the [Student Services Web site](#) .

## • School of Business Administration

## • The Rubenstein School of Environment and Natural Resources

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**Curriculum**

<b>FIRST-YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<a href="#">HDFS 005 - Human Development</a>	3	
Studio Art Foundation	3	3
Art History	3	3
General Education Electives	6	6
<a href="#">EDSP 005 - Issues Affecting Persons with Disabilities</a>		3
<a href="#">EDSS 011 - Race &amp; Culture</a>		1
<b>Total</b>	<b>15</b>	<b>16</b>
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
Studio Art Foundation	3	
Art History Elective	3	
Studio Art	3	6
Physical Education Elective	1	1
General Education Electives	6	6
Elective		3
<b>Total</b>	<b>16</b>	<b>16</b>
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<a href="#">EDAR 177 - Curriculum &amp; Pract. in Elem. Art</a>	4	
<a href="#">EDAR 178 - Curriculum &amp; Pract. in Middle/HS Art</a>	4	
Studio Art	6	6
Electives	3	3
<a href="#">EDAR 284 - Current Issues in Art &amp; Ed</a>		3
* Literacy Requirement		3
<b>Total</b>	<b>17</b>	<b>14-15</b>
* <a href="#">EDSC 215</a> , <a href="#">EDEL 177</a> ( <i>Middle Level section only</i> ) or <a href="#">EDLT 236</a>		
<b>SENIOR YEAR</b>		

Course	Term	
	Fall	Spring
<u>EDFS 203 - Soc Hist&amp; Phil Found of Ed</u>	3	
Studio Art	6	
Electives	6	
<u>EDAR 283 - Current Issues in Art &amp; Ed</u>		3
<u>EDSC 226 - Teaching Internship</u>		12
Total	15	15

Students apply to the Art Education Major during second semester of sophomore year. Students must be accepted in order to enroll in required methods courses.

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## Teacher Education: Elementary Education (K-6) (Bachelor of Science)

### Overview

The Elementary Education Program prepares teachers for assignments in grades kindergarten through six. The Bachelor of Science in Education is awarded upon satisfactory completion of the approved program which includes a planned sequence of professional courses, field experiences, and a full-semester internship experience.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Elementary Education Program is a designed sequence of professional course work that achieves coherence from its theme "teaching all children strategically in diverse communities." Embedded in a state known for its progressive schooling traditions, Elementary Education students have ample opportunity to learn about and practice the art and science of teaching. Through a web of unique relationships with area schools, Elementary Education majors build friendships with a diverse variety of children by the second year of their professional program.

### Several features distinguish the program:

*Blocked Professional Course Work:* Grounded in a theoretical orientation that seeks to limit the necessity for piecemeal education, faculty of the program have designed course work that fits together in naturally occurring curricular blocks: literacy (reading/writing, children's literature, mathematics), inquiry (social education, science, visual and

- Education performing arts), and the professional internship (student teaching, classroom management, and portfolio development).
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  - Honors College
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  - The Rubenstein School of Environment and Natural Resources

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*Full Inclusion:* The State of Vermont has the highest rate of inclusion of learners with special challenges in the regular classroom setting. Being educated at UVM means elementary education students learn about and practice the application of instructional adaptations for learners of exceptional need.

*Elementary Education Curriculum:* The elementary education curriculum includes a general education component of 60 credits from the academic areas outlined earlier. Included in the 60 hours must be two semester hours of physical education activities. Students are required to complete an approved major concentration, consisting of at least 30 hours of study in a liberal arts and sciences discipline. Specific information may be obtained from advisors or from the Office of Student Services, 528 Waterman. In addition to the major concentration and professional education requirements, certain courses are recommended to meet specific state and national requirements in elementary education.

Full-time students enroll in 12 to 18 credits. Elementary education students enroll in the required education courses each semester, along with several additional required courses.

## Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<u><a href="#">EDEL 010 - Intro to Teaching &amp; Learning</a></u>	1	1
<u><a href="#">EDEL 011 - Computers in El. Ed. Classroom</a></u>	3	or 3
<u><a href="#">EDEL 024 - Learners and Learning Process</a></u>	3	or 3
Major Concentration	3	6
PEAC	1	or 1
Diversity	1-3	or 1-3
General Education Electives	6	6
	12-	12-

Total	18	18
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<sup>1</sup> <u>EDEL 056 - Teachers &amp; the Teaching Process</u>	3	or 3
<sup>1</sup> <u>EDEL 178 - Meeting Indiv. Needs: Assessment and Instruction</u>	2	or 2
<sup>1</sup> <u>EDSP 005 - Issues Affecting Persons With Disabilities</u>	3	or 3
<u>EDPE 197 - Issues in Health Education</u>	1	or 1
<u>EDPE 100 - Integrating Movement Across the Elementary School Curriculum</u>	2	or 2
Major Concentration	3	6
PEAC	1	or 1
General Education Electives	6	6
Total	12-18	12-18
During the sophomore year, students must complete an Application to Teacher Education form available in 533 Waterman Building. Students will follow requirements specified in the Application to Teacher Education. Students will not be permitted to enroll in advanced education courses until they have been accepted to teacher education. The advanced courses include:		
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<sup>2</sup> <u>EDEL 155 - Lab Experience in Inquiry</u>	3	or 3
<sup>3</sup> <u>EDEL 156 - Teaching Math for Meaning</u>	3	or 3
<sup>2</sup> <u>EDEL 157 - Social Ed. &amp; Social Studies</u>	2	or 2
<sup>2</sup> <u>EDEL 158 - Teaching Science for Meaning</u>	2	or 2
<sup>2</sup> <u>EDEL 159 - Visual &amp; Performing Arts, K-6</u>	2	or 2
<sup>3</sup> <u>EDEL 175 - Lab Experience in Literacy</u>	3	or 3
<sup>3</sup> <u>EDEL 176 - Language Arts &amp; Literacy Skills</u>	3	or 3
<sup>3</sup> <u>EDEL 177 - Children's Literature and Literacy</u>	2	or 2
<sup>4</sup> <u>EDEL 187 - Planning, Adapting and Delivering Reading Instructions</u>	3	or 3
Major Concentration	3	3
Electives	3	3
Total	12-18	12-18
Students are required to complete a student teaching internship application in their junior year before being assigned a placement as		

seniors. Students will be notified by the Elementary Education Program (656-3356) of a general meeting and are expected to attend to initiate this process. Students will follow requirements specified in the Application to Student Teaching. The course work for this stage of the program follows

### SENIOR YEAR

Course	Term	
	Fall	Spring
<sup>5</sup> <u>EDEL 185</u> EDEL 185 - Student Teaching Internship	12	or 12
<sup>5</sup> <u>EDEL 188</u> EDEL 188 - Principles of Classroom Management	2	or 2
<sup>5</sup> <u>EDEL 189</u> EDEL 189 - Portfolio Development & Reflective Practice	1	or 1
<u>EDFS 203 - Social, Hist. &amp; Phil. Foundations of Education</u>	3	or 3
Major Concentration	6	or 6
Electives	6	or 6
Total	12- 18	12- 18

A minimum of 127 approved credit hours is required for the degree.

#### Notes:

<sup>1</sup> Courses taken concurrently

<sup>2</sup> Courses taken concurrently

<sup>3</sup> Courses taken concurrently

<sup>4</sup> EDEL 187 must be taken after completion of the Literacy Block and prior to student teaching.

<sup>5</sup> Courses taken concurrently

#### Affiliations

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- Departments and Programs:Education Department.

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## Teacher Education: Middle Level Education (5-9) (Bachelor of Science)

### Overview

The organizing theme of the Program is "Education for High Achievement and Personal Efficacy." The Program provides a minimum of four supervised internships whereby university students participate in the most highly successful middle level school programs that are within reasonable commuting distance.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Students who satisfactorily complete the program earn a minimum of 127 credit hours of study across three areas: General Education, Academic Concentration, and Professional Studies. This design ensures that each student achieves a balance of academic and professional preparation to meet the expectations and challenges associated with teaching at any level. During the students' first year they enroll in a required two semester advising course, [EDML 10](#) "Introduction to Teaching," where faculty guide them in devising an eight semester plan that is balanced across three areas of study. Those three areas are briefly described below.

*General Education:* Students earn at least 39 credits in liberal arts and sciences from an array of disciplines such as: English, Mathematics, Social Science, History, Political Science, Humanities, Diversity, Art and Physical Education. Six credits are designated as Electives. Most of these courses are generally completed during the first three to four semesters, and since students sometimes transfer from one program to another, these



Education credits easily transfer to other degree programs in the College of Education and Social Services as well as other colleges within the University.

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- Honors College

- School of Business Administration

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*Academic Concentration:* Every Teacher Education student is required to complete an academic major referred to as a "major concentration." Students enrolled in the Middle Level Program organize their concentration around two disciplines in order to accomplish the middle level licensure requirement for two teaching areas. This design is referred to as an IDIMC (Individually Designed Interdisciplinary Major Concentration), and it consists of 18 credits in each of two disciplines for a total of 36 credits. For example, one student might choose to combine Science and English while another decides on Mathematics and Social Studies. These academic combinations enable a student to teach in multiple areas as a member of a middle level team consisting of two to five or more teachers. Program advisors and students work closely together, especially over the first two years, to design an IDIMC that accommodates the student's interests and fits the needs of middle level teachers.

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*Professional Studies:* Courses that concentrate on the professional work of teaching, span all four years. These studies are grounded in theory, research and policies associated with the very best practices in middle level education. Studies of young adolescent learning and development, teachers and teaching, literature for young adult readers, special education and technology are taken in the first two years as Pre-Professional Requirements. These courses include a minimum of one field placement with a middle level team of teachers. More heavily field-linked courses in curriculum, pedagogy, assessment, team organization, literacy, mathematics, and evaluation and assessment are taken the last two years. Required professional courses over four years total of 52 credits.

*Fieldwork:* The faculty is committed to providing students as much field experience as possible and practical. Four courses ([EDML 56](#), [EDML 171](#), [EDML 261](#), [EDML 285](#)) are primarily field-based, and while taking these courses students will enjoy working with teachers on four different teaching teams. Emphasis is placed on high levels of integration between campus-based learning and field experience to insure that students are sufficiently oriented and prepared for the real work of exemplary middle level schools.

*Cohort:* Cooperation and collaboration among teachers is a hallmark of middle level teaching teams. That same spirit is given emphasis through building a cohort of middle level teacher education students who receive group advising, who take courses together, and who participate in professional activities such as school events and professional conferences. Additionally, the Middle Level Teacher Education Program includes a Teacher Advisory Committee composed of exemplary middle level teachers from area schools who consult with students and faculty about the Program, field placements, job searches and other issues related to advancing one's professional development and beginning career.

*Professional Portfolio:* In the aforementioned EDML 10 course, students are introduced to the process of documenting and preserving samples of their professional work and development. These samples are maintained in individual portfolios that grow

cumulatively semester by semester. A final Professional Portfolio is assembled during the student teaching semester to more fully define the professional background and aspirations of the novice teacher. These final portfolios constitute completion of the Program, and they are valuable to seniors reflecting on their preparation and accomplishments as well as beginning a job search. These full portfolios are drawn upon to create a more succinct "presentation portfolio" for use in interviews. Seniors also receive faculty guidance in creating resumes and applying and interviewing for teaching positions. The demand for teachers well prepared for teaching middle level schools is such that the portfolio is an excellent and comprehensive way to present one's candidacy.

## Curriculum

<b>FIRST YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
Diversity	1	
<u>EDEL 11</u> - Computers in El. Ed. Classroom	3	
<u>EDML 10</u> - Introduction to Teaching	1	1
Physical Education Elective	1	1
General Education Electives	9	6
<u>EDML 24</u> - Learners, Development & Learning		3
IDIMC		6
Total	15	17
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDML 56</u> - Teachers & the Teaching Process	3	
<u>EDSP 5</u> Issues Affecting Persons with Disabilities	3	
<u>EDEL 177</u> Children's Lit. & Literacy	2	
IDMIC	6	6
General Education Electives	3	6
Electives		3
Total	17	15
<b>JUNIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDML 260</u> Teaching Young Adolescents	6	
<u>EDML 261</u> Teaching Practicum I	3	
IDIMC	6	6
Electives	3	3
<u>EDML 270</u> Middle School Organization and Pedagogy		6
<u>EDML 171</u> Teaching Practicum II		3

Total	18	18
<b>SENIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDFS 203</u> Soc Hist & Phil Found of Ed	3	
IDIMC	6	
Electives	3	
<u>EDML 285</u> Student Teaching Internship		12
<u>EDML 286 - Internship Support Seminar</u>		1
<u>EDML 287</u> Literacy & Mathematics		3
Total	12	16

### Affiliations

- Colleges and Schools:College of Education and Social Services.
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- Continuing

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## Teacher Education: Music Education (K-12) (Bachelor of Science)

### Overview

The College works cooperatively with the [Music Department](#) in the [College of Arts and Sciences](#) to offer a program in Music Education which leads to both degree and licensure for grades K-12.

The curriculum in music education, leading to the degree of Bachelor of Science in Music Education, is recommended to students who have sufficient training and musical ability to justify a career in music. Prospective students must audition before entering the program. Those admitted as first-year students or sophomores to the Music Education program are considered Candidates in the program. Admission as a Major is made at the beginning of the junior year following formal review procedures during the second semester of the sophomore year. Graduates are qualified for positions as instructors of music in public schools.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 128 approved semester hours is required for the degree including three semester hours of teaching reading for teaching licensure. Students must pass the piano proficiency and the PRAXIS I examinations prior to student teaching. Students are responsible for obtaining information regarding teaching licensure and degree requirements from the College of Education and Social Services' Office of Student Services, 528 Waterman , or [Student Services Web site](#)

## Education

Pedagogy classes are taken as available.

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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## Curriculum

<b>FIRST-YEAR</b>		
Course	Credits	
	Fall	Spring
<u>HDFS 005 - Human Development</u> or <u>EDEC 063 - Child Development</u>	3	
<u>MU 022 - Group Piano</u>	1	
<u>MU 053 - Harmony and Form I</u>	3	
<u>MU 054 - Harmony and Form Lab I</u>	1	
<u>MU 077 - String Methods</u> or <u>MU 079 - Percussion Methods</u>	2	
<u>MU 133 - MU 140 Applied Lessons</u>	2	2
Ensemble	1	1
General Education Electives (Math, Science)	3	3
<u>EDSS 011 - Race and Culture</u>		1
<u>MU 023 - Group Piano</u>		1
<u>MU 055 - Harmony and Form II</u>		3
<u>MU 056 - Harmony and Form Lab II</u>		1
<u>MU 076 - Brass Methods</u> or <u>MU 078 - Woodwind Methods</u>		2
<u>MU 080 - Vocal Pedagogy</u>		2
<u>MU 085 - Intro to Music Education</u>		1
Physical Education Elective		1
Total	16	18
<b>SOPHOMORE<sup>1</sup></b>		
Course	Term	
	Fall	Spring
<u>MU 060 - Intro to Music Technology</u>	3	
<u>MU 077 - String Methods</u> or <u>MU 079 - Percussion Methods</u>	2	
<u>MU 111 - Music History &amp; Literature I</u>	3	
<u>MU 153 - Harmony and Form III</u>	3	
<u>MU 154 - Harmony and Form Lab III</u>	1	
General Education Elective (Humanities or Social Science)	3	

<u>MU 133 - MU 140 Applied Lessons</u>	2	2
Ensemble	1	1
<u>MU 076 - Brass Methods</u> or <u>MU 078 - Woodwind Methods</u>		2
<u>MU 112 - Music History &amp; Literature II</u>		3
<u>MU 155 - Harm &amp; Form IV:20th C Tech</u>		3
<u>MU 156 - Harmony and Form Lab IV</u>		1
<u>MU 181 - Conducting</u> or <u>MU 253 - Orchestration</u>		3
Physical Education Elective		1
Total	18	16
<b>JUNIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MU 251 - Advanced Theory:Counterpoint</u>	3	
<u>MU 280 - Hist/Phil Fnd Music Educ</u> or <u>MU 281 - Advanced Conducting</u>	3	
<u>EDSP 005 - Iss Aff Persons W/Disabilities</u>	3	
General Education Electives (Humanities or Social Science)	3	
<u>MU 141 - MU 144 Applied Lessons</u>	2	2
Ensemble	1	1
Electives		5
<u>MU 276 - Elem Music Educ Methods</u>		3
<u>MU 181 - Conducting</u> or <u>MU 253 - Orchestration</u>		3
* Literacy Requirement		3
Total	15	17
* <u>EDSC 215</u> , <u>EDEL 177</u> (Middle Level Section only) or <u>EDLT 236</u>		
<b>SENIOR<sup>2</sup></b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MU 141 - MU 144 Applied Lessons</u>	2	
<u>MU 250 - Senior Recital</u>	1	
<u>MU 278 - Sec Music Educ Methods</u>	3	
<u>MU 280 - Hist/Phil Fnd Music Educ</u> or	3	

<u>MU 281 - Advanced Conducting</u>		
<u>EDFS 203 - Soc, Hst &amp; Phil Found of Educ</u>	3	
Electives	3	
Ensemble	1	
<u>MU 290 - Teaching Internship</u>		12
Total	16	12

### Notes:

1. Students apply to the Music Education major during the second semester of their sophomore year.
2. Students are required to complete a student teaching internship application before being assigned a placement.

### Affiliations

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Education Department.

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## Teacher Education: Physical Education (K-12) (Bachelor of Science)

### Overview

The Professional Physical Education Program qualifies candidates for licensure to teach in grades K-12. Course work around the program theme, Moving and Learning, includes a series of courses designed to provide a background to the field of physical education. Specialty courses assist the student in the development of physical education program content and teaching skills important in providing developmentally appropriate programs of physical education to children and youth in today's schools. Laboratory experiences in schools throughout the program aid students in recognizing the relationship between theory and practice.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Courses in general education and professional education as well as a liberal arts and sciences major/major concentration are required. A major concentration in Exercise and Sport Science is available to students in the Physical Education program.

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">EDPE 021 - Foundations of Phys. Ed.</a>	3	



Education	<a href="#">EDHE 046 - Personal Health</a>	3	
• Graduate College	<a href="#">PEAC 050 - Individual Sports</a>	1	
	<a href="#">PEAC 125 - Team Sports 1</a>	1	
• Honors College	Major Concentration	3	6
	General Education Electives	6	6
• School of Business Administration	<a href="#">PEAC 070 - Racquet Sports</a>		1
	<a href="#">PEAC 126 - Team Sports 2</a>		1
• The Rubenstein School of Environment and Natural Resources	<a href="#">EDPE 157 - Care &amp; Prevent. Athletic Injury</a>		3
	Total	17	17
<b>SOPHOMORE</b>			
Policies and General Information	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
Faculty and Administration		<b>Fall</b>	<b>Spring</b>
Catalogue Archives	<a href="#">EDPE 023 - ARC Emergency Response*</a>	3	
	<a href="#">HDFS 005 - Human Development</a>	3	
	<a href="#">ANPS 019 - Hum Anatomy &amp; Physiology</a>	4	
	<a href="#">PEAC 016 - Gymnastics</a>	1	
	<a href="#">PEAC 028 - Conditioning</a>	1	
	Major Concentration	6	6
	<a href="#">ANPS 020 - Hum Anatomy &amp; Physiology</a>		4
	<a href="#">PEAC 190 - Dance</a>		1
	<a href="#">PEAC 105 - Outdoor Recreation</a>		1
	<a href="#">EDPE 104 - Phys Ed Teaching Experience</a>		5
	Diversity		1
	Total	18	18
	*or evidence of American Red Cross Basic Emergency Response certification		
<b>JUNIOR YEAR</b>			
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EDPE 105 - Phys. Ed. Teaching Exper.</a>	5	
	<a href="#">EDPE 167 - Exercise Physiology</a>	4	
	<a href="#">EDPE 220 - Sport in Society</a>	3	
	<a href="#">EDPE 260 - Adapted Physical Activity</a>	3	
	General Education Electives	3	3
	<a href="#">EDPE 155 - Phys Ed in Secondary Schools</a>		3
	<a href="#">EDPE 166 - Kinesiology</a>		3
	<a href="#">EDPE 240 - Motor Skills Learning &amp; Control</a>		3
	Major Concentration		3
	Total	18	15
<b>SENIOR YEAR</b>			

Course	Term	
	Fall	Spring
* Literacy Requirement	3	
<u>EDFS 203 - Soc Hist &amp; Phil Found of Ed or EDFS Elective</u>	3	
Major Concentration	6	
Electives	3	
<u>EDPE 181 - Student Teaching</u>		12
<u>EDPE 182 - Student Teacher Seminar</u>		2
Total	15	14
* <u>EDSC 215</u> , <u>EDEL 177</u> (Middle Level Section only) or <u>EDLT 236</u>		

### Affiliations

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Education Department.

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## Teacher Education: Secondary Education (7-12) (Bachelor of Science)

### Overview

The Secondary Education Program prepares teachers to work with students with diverse needs in public school classrooms in grades 7-12. The curriculum includes general education; a major, a minor, or a broadfield major; a professional education component; and electives.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 124 approved semester hours is required for the degree. Specific requirements, including PRAXIS information, as approved by the State Department of Education, may be obtained from the Office of Student Services, 528 Waterman. Program information is also available from the Secondary Education Program, 405A Waterman or on the [Web](#) .

During the first two years, students enroll in a CESS course each semester, concentrating on completing their general education, major, and minor requirements while also taking selected coursework in education. The majority of professional education coursework is completed in the junior and senior years.

**General Education Component** (Minimum of 27 credits): The general education courses must include the following courses. Two semester hours of physical education activities must be included.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

- English Composition and English Literature
- Science
- Mathematics
- U.S. History
- American Government
- PSYC 1
- Humanities (Philosophy, Religion, Foreign Language)
- Physical Education activities
- Race and Culture

Academic Major and Minor Components (major minimum of 30 credits, minor minimum of 18 credits or broadfield major of 48-52 credits): Students who successfully complete their Teacher Education programs are recommended for licensure with a first endorsement in their major, and may apply directly to the State Department of Education for an endorsement to also teach their minor. Students are therefore encouraged to select a minor which is also a licensure area.

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**Professional Education Component** (45 credits): By the time students begin the professional education component of their program as juniors, they should have completed most of their general education requirements, have taken 12 credits of professional education coursework, and be well into their academic major (15-18 credits completed) and their academic minor (six-12 credits completed). Students must complete the remainder of their requirements as they complete the following phases of the professional education component:

- I. Exploring Learners' Needs in the Context of Schools: [EDFS 203](#), [EDSC 207](#), [EDSC 209](#).

Following completion of this first phase, students must submit their Initial Portfolio and their application to the Teacher Education Program. The Initial Portfolio documents learning, professional knowledge, collegiality, advocacy and accountability. Provided the Initial Portfolio is assessed as satisfactory, the student has achieved passing scores on PRAXIS I, and has a minimum 2.5 GPA overall, 2.5 in his or her major, and was successful in [EDFS 203](#), [EDSC 207](#) and [EDSC 209](#) (3.0 or better), the student is accepted into Teacher Education and may begin work on the second phase of the program.

- II. Designing and Adapting Instruction: [EDSC 215](#), [EDSC 216](#) and subject methods.

Subject methods for major: [EDSC 225](#) (Social Studies), [EDSC 227](#) (Science), [EDSC 240](#) (English), [EDSC 257](#) (Mathematics), or [EDSC 259](#) (Foreign Languages).

During this phase of the program, prior to student teaching, students must have an overall GPA of 3.0 and a minimum GPA of 2.75 in their major. Following a successful faculty review of a student's records, he or she is nominated for a placement. Students must complete the interview process for placement by the school in order to be confirmed for student teaching. Students complete a

semester of full-time student teaching as the third phase of the program. (In some cases, students must arrange to live off-campus during the student teaching semester.)

### III. Achieving Results in Schools: [EDSC 226](#), [EDSC 230](#).

As students complete their degree program, they must submit their Licensure Portfolios which document competence with program and state licensure requirements (ROPA). Recommendation for licensure is based on successful completion of student teaching, an overall grade-point average of 3.0, as well as on submission of a satisfactory Licensure Portfolio, and meeting state accreditation standards.

**Student's Responsibility:** Information about application and assignment procedures for the Secondary Education Program may be obtained from 405A Waterman Building. Students are responsible for obtaining information regarding the process and requirements, and for notifying the office as to changes in their status, address, or intentions for completion of their program.

**Language Proficiency:** A Language Proficiency Test is required for the Secondary Education Foreign Language majors.

**Speech/Theatre:** All students must demonstrate competence in the area of speaking by taking a speech or theatre course or by submitting evidence of competence (go to 405A Waterman Building for more information).

## Curriculum

FIRST YEAR		
Course	Credits	
	Fall	Spring
<a href="#">EDSC 50 - Exploring Education</a>	3	
<a href="#">EDSS 011 Race &amp; Culture</a>	1	
Minor	3	
Major	3	6
General Education Electives	6	6
<a href="#">EDSP 5 - Issues Affecting Persons with Disabilities</a>		3
Physical Education Elective		1
Total	16	16
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">EDSC 11 - Educational Technology in the Secondary Education Classroom</a>	3	
Physical Education Elective	1	

Major	3	6
General Education Electives	9	3
Field-based experience (advisor approved CESS elective)		3
Minor		6
Total	16	18
<b>JUNIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDFS 203 - Soc Hist &amp; Phil Found of Ed</u>	3	
<u>EDSC 207 - Adolescent Learning from a Behavioral &amp; Cognitive Perspective</u>	3	
<u>EDSC 209 - Practicum in Teaching</u>	3	
Major	6	6
<u>EDSC 215 - Reading in Secondary Schools</u>		3
<u>EDSC 216 - General Methods for Sec Teachers</u>		3
Special Methods		3
Minor		3
Total	15	18
<b>SENIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDSC 226 - Teaching Internship</u>	12 <sup>1</sup>	12 <sup>1</sup>
<u>EDSC 230 - Teaching for Results</u>	3 <sup>1</sup>	3 <sup>1</sup>
Electives	4 <sup>1</sup>	4 <sup>1</sup>
Minor	6 <sup>1</sup>	6 <sup>1</sup>
Total	12- 18	12- 18

<sup>1</sup> Take Fall or Spring

### Affiliations

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Education Department.

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## Teacher Education Requirements

The undergraduate Teacher Education programs include Art, Early Childhood, Early Childhood Special Education, Elementary, Family and Consumer Sciences, Middle Level, Music, Physical Education and Secondary Education. All students are required to meet specific criteria for admittance into the professional portion of the program and for a teaching internship placement as well as for a recommendation for licensure.

### Requirements for Teacher Preparation Programs

**Candidacy:** The professional programs begin with the student enrolling in the College of Education and Social Services as a candidate for licensure. Candidacy status is the stage prior to acceptance into the professional education sequence and, for some programs, may also be available to students enrolled in other colleges at UVM.

**Intercollege Transfer:** Students transferring to the College of Education and Social Services for the Teacher Education programs are required to have a minimum overall grade point average of 2.5 or higher, and it must be possible to earn an overall average of 3.0 before reaching program completion.

**Academic Major:** All students who enroll in the Teacher Education programs are required to complete a 30 hour (minimum) major in the liberal arts and sciences. It is essential for students to complete many liberal arts and sciences requirements during the first two years of their program. Copies of the options and the requirements are available through the [Office of Student Services](#) ☐, 528 Waterman.

Students in Secondary Education complete a major (minimum 30 hours) and a minor (minimum 18 hours) or a broadfield major (minimum 48 hours) from a very specific list of options.

Students in Middle Level Education complete an Individually Designed Interdisciplinary Major Concentration (IDIMC).

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Students in Early Childhood, Elementary, Family and Consumer Sciences, and Physical Education complete a 30-hour (minimum) major concentration and are strongly encouraged to select a specific discipline but they also have the option of creating an Individually Designed Interdisciplinary Major Concentration (IDIMC).

**Portfolio Development and Professional Licensure:** In accordance with the Standards for Vermont Educators (Vermont State Board of Education, 1991), students seeking a license to teach must develop documentation that they can perform in ways that address State standards. Each candidate must assemble that documentation in a preprofessional portfolio according to program guidelines. While students have candidacy status, they should maintain a file which includes all materials from courses completed so that selected items can be included in the portfolio.

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**Application to Teacher Education:** Candidates interested in pursuing teaching as a career apply to the teacher education program of their choice. Applications are available in each departmental office. Once the candidate's application is complete, the program faculty will review the materials which include a record of academic performance at UVM, recommendations from University and public school faculty, evidence of superior course work, passing scores on PRAXIS I (or fulfillment of this requirement by one of the approved alternate options) as determined for Vermont, and other pertinent sources of information. All students must apply for acceptance into the teacher education segment of their program. Students are required to complete this application and gain acceptance before being eligible to enroll in the professional education courses. This includes: CESS students who are already enrolled as candidates in the teacher education programs; students who transferred to the CESS; and students in other colleges on campus who plan to maintain their primary affiliation with their home college while completing the SDE approved requirements in the CESS.

Students who meet the criteria and are eligible will be accepted. CESS students who do not meet the criteria for admission to Teacher Education will receive a warning of pending disenrollment letter. Students who are warned of pending disenrollment should meet with the program coordinator and determine if program completion is an option.

Students who have not successfully fulfilled the PRAXIS I requirement may appeal for conditional acceptance.

**Application to Student Teaching:** If a candidate's application to a teacher education program is approved, the candidate completes a sequence of professional education courses and applies during the junior year to intern as a student teacher senior year. The candidate submits his/her portfolio and application to student teach to the Program Coordinator. The application lists the current set of criteria that permit a candidate to qualify for student teaching. Included among the criteria are a record of strong academic performance in program and University courses, recommendations from education faculty, and evidence of superior course work and passing scores on PRAXIS I as determined for Vermont. Once admitted to student teaching, the student must successfully complete the interview process and be accepted by an approved public school teacher/administrator before being placed for student teaching. After placement,



the student will carry out an internship under the guidance of an approved cooperating teacher and department supervisor. Student teachers will be placed in Professional Development Schools or Partnership Schools. Although many students remain in the Burlington area, not all can be placed close to campus. Effort is made to accommodate student preference regarding placement site and the semester during which student teaching will occur. All students should be prepared to student teach in either the fall or spring - semester of their senior year. Candidates must meet specific requirements to be recommended for licensure. These requirements are available in the Office of Student Services, 528 Waterman.

Note: Students who are not admitted to student teaching may appeal through the College Student Affairs Committee.

**Application for Licensure:** Students who successfully complete a Teacher Education program are eligible to apply for licensure. The Licensing Newsletter which explains this process is available from the [Student Services Office](#) in 528 Waterman. Applications for licensure are **only** available from the Vermont State Department of Education (802-828-2445).

**Teacher Assessment-PRAXIS:** Undergraduate Students: Students are required to submit passing scores for PRAXIS I (refer to chart) as part of their application to the professional portion of their Teacher Education program. If all three areas have not been passed, the student may appeal for conditional acceptance. Passing scores must be received by the program for all three content areas of PRAXIS I before the student is eligible for a teaching internship placement.

Teaching endorsements as listed on the chart require passing scores on PRAXIS II for Vermont licensure. Science endorsements require passing scores on both General Science as well as the specific area (e.g. Chemistry, Biology, etc.). Endorsement areas which have both multiple choice and a constructed response (essay) options require a passing score in one option for PRAXIS II. Refer to the [Vermont Department of Education Web site](#) for current information.

PBTP and Licensing Masters: Applicants will provide passing scores on PRAXIS I & PRAXIS II (if required for endorsement) before being admitted to the program. Students who receive conditional acceptance must provide passing scores for PRAXIS I & PRAXIS II (if required for endorsement) before being eligible for a teaching internship placement.

### PRAXIS I Options

1. Candidates for initial licensure may meet **either** the three individual PRAXIS I test scores (i.e., Reading - 177, Writing - 174, and Mathematics - 175) **or** a composite score of 526 (i.e., the total of the three test scores).
2. The following assessments have been approved as alternatives to PRAXIS I. Students must meet both the total score as well as the minimum scores as equivalent to earning passing scores on PRAXIS I.



	Total Score	Verbal/English	Math/Quantitative
<b>Graduate Record Exam (GRE)</b>	1100	500	500
<b>Scholastic Aptitude Test (SAT)</b>	1100	500	500
<b>ACT</b>		22	22

## PRAXIS II

<b>Art</b>	Essay: 148
<b>Biology</b>	Multiple Choice: 161/Essay: 150
<b>Chemistry</b>	Multiple Choice: 150/Essay: 150
<b>Earth Science</b>	Multiple Choice: 158/Essay may be added
<b>Elementary</b>	Multiple Choice: 148/Essay may be added
<b>English</b>	Multiple Choice: 172/Essay: 160
<b>General Science</b>	Multiple Choice: 157/Essay may be added
<b>Mathematics</b>	Multiple Choice: 141/Proofs, Models, & Problems, Part I: 154
<b>Music</b>	Multiple Choice: 153/Essay: 150
<b>Physical Education</b>	Multiple Choice: 147/Essay: 154
<b>Social Studies</b>	Multiple Choice: 162/Essay: 165

## 2002-2003 Teacher Examination Pass Rate:

### Praxis I Basic Skills

<b>Reading</b>	98%
<b>Writing</b>	99%
<b>Mathematics</b>	98%

- [Brochure detailing the Testing Requirements for Educator Licensing](#)

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## Courses offered by the Education Department

### Courses in Special Education

#### EDSP 005 - Iss Aff Persons W/Disabilities

Students explore the effects of severe disabilities. Best service practices, current legislation, advocacy, and

Credits: 3.

#### EDSP 197 - Independent Study

Credits: 1-3.

#### EDSP 200 - Contemporary Issues

hours in education and related areas. Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve

Credits: 1-3.

#### EDSP 201 - Foundations of Special Ed

Examination of historical, current trends in the treatment of individuals with disabilities, including the effects of litigation, legislation, and economic considerations on educational and residential service delivery systems.

Prerequisite: Twelve hours in education and related areas, or permission.

Credits: 3.

#### EDSP 202 - Stdnt w/Signif Dis:Char&Ed Int

Normal development - birth through six years, developmental disorders, disabilities, medical/health considerations. Management of significant disabilities through the employment of such procedures as handling, positioning, and feeding.

Prerequisites: Permission

Education

Credits: 3.

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**EDSP 207 - Cooperative Learning**

Theoretical and experiential instruction in procedures to increase social acceptance and settings through cooperative learning. Prerequisites: Permission. Three hours.

Credits: 3.

**EDSP 216 - Curr&Instr Needs/All Students**

Introduction to curriculum and instruction for all students with a focus on individuals who present academic and behavioral challenges. Emphasis on assessment, evaluation, curriculum, instruction, theories of learning and social development. Prerequisite: Permission.

Credits: 3.

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**EDSP 217 - Instr Individ/Significant Disab**

Individualized instruction for learners with significant disabilities emphasizing objectives, assessment, task analysis, and behavior analysis. Prerequisite: Permission.

Credits: 3.

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Faculty and Administration

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**EDSP 221 - Family Centered Services**

An in-depth study of families of children with special needs; family ecology; interaction and life cycle. Development and implementation of family/professional collaboration strategies. Practicum required. Prerequisite: Instructor permission.

Credits: 3.

**EDSP 224 - Meeting Inst Needs/All Stdnts**

Students apply principles of learning and social development to improve academic and social skills of all individuals with a focus on those who present academic and behavioral challenges. Prerequisite: Instructor permission.

Credits: 3.

**EDSP 228 - Instr for Severely Handicapped**

Students apply advanced principles of behavior analysis in the development and implementation of instructional programs for learners with moderate and severe disabilities. Prerequisite: Instructor permission and introductory behavior analysis course.

Credits: 3.

**EDSP 274 - Culture of Disability**

Focus on theoretical questions of how societies understand disability and its consequences for social justice, by examining the multiple determinants of the societal construction of disability. Prerequisites: Junior, senior or graduate standing. Corss-listings: CMSI 274.

Credits: 3.

**EDSP 275 - Voc Instr Students W/Spec Need**

Development of instructional strategies for including students with disabilities in

vocational education. Procedures for developing, implementing, and evaluating individualized vocational plans. Prerequisite: Admission to an approved teacher certification program or Instructor permission.

Credits: 3.

**EDSP 280 - Assessment in Special Ed**

Course covers assessment knowledge and skills essential for special educators, including test selection, administration and scoring, and legal issues related to special education assessment. Prerequisite: Admission to Graduate Program in Special Education or permission of the Instructor.

Credits: 3.

**EDSP 290 - Meeting Curr Needs of Students**

Study of curriculum and technology areas related to the development, adaptation, and assessment of all students focusing on students with academic and behavioral challenges. Prerequisite: Permission.

Credits: 3.

**EDSP 295 - Laboratory Exp in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 1-6.

**EDSP 296 - Laboratory Exp in Education**

Credit as arranged.

Credits: 1-6.

**EDSP 297 - Curr for Indvls W/Handicaps**

Students develop and implement an objectives-based curriculum for learners with learning disabilities, mental retardation, behavior disorders, and/or multidisabilities. Prerequisite: Permission.

Credits: 3.

**EDSP 298 - Special Educ Practicum**

Students provide direct instruction for six learners with learning disabilities, mental retardation, behavior disorders, and/or multidisabilities. Prerequisite: Instructor permission.

Credits: 1-6.

**EDSP 301 - Hst of Serv/Hndicapped Individ**

Historical and current trends in treatment of individuals with disabilities, including effects of litigation, legislation, economic consideration in education, vocational, residential service delivery systems. Prerequisite: Acceptance as candidate for M.Ed. degree in special education, or permission.

Credits: 3.

**EDSP 302 - Phys&Dev Char of Indiv w/Disab**

Normal development - birth through six years, developmental feeding.

Prerequisite: Instructor permission. disorders, disabilities, medical/health considerations. Management of significant disabilities through the employment of such procedures as handling, positioning, and  
Credits: 3.

**EDSP 305 - Res Dev&Coll:Fam/Sch/Com/Agncy**

An overview of collaborative teaming, function assessment and Vermont's System of Care for students with emotional and behavioral disabilities. A practicum experience is included. Prerequisite: BA.  
Credits: 3.

**EDSP 306 - Emot&Behav Dis/Child&Adolesc**

This course provides an overview of emotional disorders (e.g., depression, anxiety, ADHD, conduct disorder) experienced by youth and relevant assessment tools for an educational setting. Prerequisite: BA.  
Credits: 3.

**EDSP 307 - Prev&Interv Strategy:Students**

classroom management, social skills training, anger This course covers effective prevention and intervention strategies with, or at-risk, for emotional and behavioral disorders. It covers such topics as management, internalizing disorders.  
Prerequisite: BA in Education/related field.  
Credits: 3.

**EDSP 310 - Curr & Tech in Spec Education**

Curricular and assessment areas essential to education of students with disabilities. Development, adaptation of curricula and assessment in early education, elementary and secondary and adult levels for mild, moderate, and severe disabilities. Prerequisite: Instructor permission.  
Credits: 3.

**EDSP 311 - Curr & Tech in Spec Education**

Curricular and assessment areas essential to education of students with disabilities. Development, adaptation of curricula and assessment in early education, elementary and secondary and adult levels for mild, moderate, and severe disabilities. Prerequisite: Instructor permission.  
Credits: 3.

**EDSP 312 - Adv Behavior Prin in Spec Ed**

A survey on behavior theory and research applications for learners with learning disabilities, mental retardation, behavior disorders, and multidisabilities.  
Prerequisite: Acceptance to M.Ed. program or Instructor permission.  
Credits: 3.

**EDSP 313 - Adv Behavior Prin in Spec Ed**

A survey on behavior theory and research applications for learners with learning disabilities, mental retardation, behavior disorders, and multidisabilities.  
Prerequisite: Acceptance to M.Ed. program or Instructor permission.

Credits: 3.

**EDSP 316 - Research Sem in Spec Educ**

Research which addresses key issues in special education is reviewed and evaluated. Students write and present a research review with attention to practitioner needs. Prerequisite: EDSP 301, EDSP 310, EDSP 312; a course in quantitative research design.

Credits: 3.

**EDSP 317 - Dsgn & Eval of Ed/Sev Handcpd**

Prerequisite: Instructor permission.

Credits: 3.

**EDSP 319 - Intern Sp Personnel in Spec Ed**

Prerequisite: Instructor permission.

Credits: 1-6.

**EDSP 320 - Lab Exp:Ed Prgmng/Sev Handcpped**

Students identify, evaluate severely disabled learners, demonstrate competency in handling, positioning, feeding. Current skill levels assessed, educational programs designed, including objectives, teaching/learning procedures, evaluation, measurement. Prerequisite: Master's degree or equivalent; Instructor permission.

Credits: 3.

**EDSP 322 - Intern: Triadic Model Consult**

Competency-based instruction in oral and written communication, consultation, and workshop level training is provided. Students apply the consultation model in an educational setting. Prerequisite: EDSP 310, EDSP 312, or Instructor permission.

Credits: 1-6.

**EDSP 323 - Intern: Systems Development**

Competency-based instruction in planning for system level development and change. Students apply systems theory in an educational setting. Prerequisite: EDSP 310, EDSP 312, or Instructor permission.

Credits: 1-6.

**EDSP 380 - Professional Problems in Educ**

analysis of the literature and practice in a given area.

Credits: 3.

**EDSP 382 - Teaching Internship**

Supervised teaching experiences on a full-time basis, with related seminars in teaching subject. Prerequisite: Permission of coordinator of Professional Laboratory Experiences.

Credits: 3-8.

**EDSP 384 - Intern: Course Dev & Implement**

Instruction in developing competency-based courses in special education for

inservice teacher training. Practicum involves team teaching with University special education faculty. Prerequisite: Certification as a Consulting Teacher/Learning Specialist and Instructor permission.

Credits: 6.

**EDSP 385 - Intern: Adv Syst Dev & Mgmt**

Competency-based instruction in developing and adapting technological programs for advanced system-level change. Prerequisite: EDSP 319 for six hours; Instructor permission.

Credits: 3-6.

**EDSP 386 - Intern:Mgmt Lrng Env for Hdcpd**

Implementation of data-based individualized education in one-to-one, small group, and large group instruction for severely disabled student(s) in special or regular classrooms. Prerequisite: EDSP 217, EDSP 290, EDSP 228 or Instructor permission.

Credits: 1-6.

**EDSP 387 - Collaborative Consultation**

Adult development and group dynamics theory provide the knowledge base for collaborating with parents and teachers to meet the diverse needs of students with disabilities. Cross-listed with: EDLP 387, EDSS 387.

Credits: 3.

**EDSP 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-6.

**EDSP 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

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## Courses in Health Education

**EDHE 046 - Personal Health**

Concepts of personal health related to problems of daily living. Mental health, sex education, nutrition and weight control, fatigue and relaxation, chronic and communicable disease, stimulants and depressants.

Credits: 3.

**EDHE 150 - Sem: Health Educ**

Research, discussion, and critical examination of selected topics and special issues in health not currently covered in existing courses. Prerequisite: Six hours in health education or Instructor permission. Variable credit, one to four hours.

Credits: 1-4.



**EDHE 173 - Practicum in Field Experience**

Individually prescribed teaching experience involving work with health agencies, both public and private. Responsibilities approximate those commonly associated with student teaching. Prerequisite: Permission. Variable credit.

Credits: 1-4.

**EDHE 182 - Health Methods and Materials**

Fundamental methods of teaching health as applied to school and public health education. Consideration of materials applicable to health education, evaluation techniques, preparation of teaching units and bibliographies. Prerequisite: EDHE 046.

Credits: 3.

**EDHE 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 1-6.

**EDHE 208 - School Health Programs**

Organization of the total school health program. Problems and administration in the area of school environment, health services, health education, and school-community relationship. Prerequisite: EDHE 046 or equivalent.

Credits: 3.

**EDHE 211 - Community Health Ed**

Government and voluntary agencies' sociological, historical, educational, environmental, and medical influences. Role of community health educator in these influences and major American health concerns. Prerequisite: EDHE 046 or equivalent.

Credits: 3.

**EDHE 220 - Stress Mgmt Hlth Professionals**

Physiological, psychological, and sociological aspects of stress. Theory, practices, teaching techniques, and application relevant to teaching students and/or clients. Prerequisite: EDHE 046 or equivalent.

Credits: 3.

**EDHE 295 - Lab Experience in Educ**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 1-6.

**EDHE 319 - Internshp Specializd Personnel**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Instructor permission.

Credits: 1-12.

**EDHE 380 - Prof Problems in Education**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.

**EDHE 382 - Teaching Internship**

Supervised teaching experiences on a full-time basis, with related seminars in teaching subject. Prerequisite: Permission of coordinator of Professional Laboratory Experiences.

Credits: 3-8.

**EDHE 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-12.

**EDHE 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

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## Courses in Athletic Training

**AT 157 - Prevention & Care Athletic Inj**

An introduction to athletic training. Course focuses on prevention, recognition, and care of injuries incurred by the physically active.

Credits: 3.

**AT 158 - Directed Obsv in Athletic Trng**

A laboratory sequence offered for those students seeking admission into the Athletic Training Education Program. Course includes development of clinical skills and 60 clinical experience hours. Pre/co-requisites: 158 must be taken concurrently with 157.

Credits: 2.

**AT 159 - Practicum in Athletic Trng I**

Course one in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment. Students are provided clinical assignments. Pre/co-requisite: Acceptance into the Athletic Training Education Program.

Credits: 2.

**AT 160 - Practicum in Athletic Trng II**

Course two in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment. Students are provided clinical assignments. Pre/co-requisite: Acceptance into the Athletic Training Education Program.

Credits: 2.

**AT 161 - Practicum in Athletic Trng III**

Course three in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment. Students are provided clinical assignments. Pre/co-requisites: Acceptance into the Athletic Training Education Program.

Credits: 2.

**AT 162 - Practicum in Athletic Trng IV**

assignments. Pre/co-requisite: Acceptance into the Course four in a series of practicum courses that sequentially develop clinical skills in a laboratory learning environment. Students are provided clinical Athletic Training Education Program.

Credits: 2.

**AT 184 - Injury Eval & Recognition I**

Evaluation and recognition of injuries to lower extremities and spine. Areas covered include injury mechanisms, etiology, pathology, and clinical signs and symptoms. Pre/co-requisites: 157 and 158.

Credits: 4.

**AT 185 - Injury Eval & Recognition II**

Evaluation and recognition of injuries to head, neck, and upper extremities. Areas covered include injury mechanisms, etiology, pathology, and clinical signs and symptoms. Pre/co-requisites: AT 184.

Credits: 4.

**AT 186 - Therapeutic Modalities**

Scientific basis and physiological effects of various therapeutic modalities utilized in the treatment and rehabilitation of musculoskeletal injuries. Emphasis on application of modalities within the framework of the healing process. Pre/co-requisite: AT 157, AT 158.

Credits: 3.

**AT 187 - Rehabilitation Techniques**

Post-injury and post-operative rehabilitation and conditioning techniques involved in returning an active individual to normal and athletic activity. Pre/co-requisite: AT 157, AT 158, AT 184.

Credits: 3.

**AT 188 - Administration in Athl Trng**

An examination of topics related to administration, budget management, health insurance issues, and policies/procedures in the profession of athletic training. Prerequisite: AT 157, AT 158.

Credits: 2.

**AT 190 - Internship in Athletic Trng**

Supervised field work in off-campus experiences in settings including: high-school, college/university, clinic, and professional sports. May be retaken for credit.

Pre/co-requisites: Senior standing and completion of 800 clinical experience hours.

Credits: 1-12.

### **AT 195 - Special Topics in Athl Trng**

Contemporary issues in the field of Athletic Training. Topics include: pharmacology, general medical conditions and disabilities, male & female health issues, and psychology in sport. Prerequisites: Junior standing and Athletic Training major.

Credits: 3.

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## **Courses in Library Science**

### **EDLI 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 1-6.

### **EDLI 272 - Manage Schl Library Media Ctrs**

Overview of administrative issues, including development of policies and procedures, budget preparation, personnel administration, and public relations. Focus on information technology and literacy. Prerequisites: Twelve hours in education and related areas, or Instructor permission.

Credits: 3.

### **EDLI 273 - Organizing Schl Libr Media Ctr**

Introduction to cataloging of print and non-print materials, Dewey Decimal Classification, application of microcomputers to catalog and circulation services. Prerequisite: EDLI 272 or equivalent.

Credits: 3.

### **EDLI 274 - Design Instr Sch Lbr Media Ctr**

Designing library instruction for integration with curricula and collaborating to create effective lessons. Issues surrounding active learning, critical thinking, learning styles, and assessment are examined. Prerequisite: EDLI 272 or equivalent.

Credits: 3.

### **EDLI 275 - Dev Sch Libr Media Ctr Collect**

Evaluating and selecting books, periodicals, audiovisuals, software, and other materials for full range of student ages and ability levels. Maintaining collection, weeding, using interlibrary loan, and dealing with censorship. Prerequisite: EDLI 272 or equivalent.

Credits: 3.

### **EDLI 276 - Information Sources & Services**

Helping students and teachers find information using print, online, CD-ROM and other resources. Developing interview skills and selecting materials for elementary and secondary core collections. Prerequisite: EDLI 272 or equivalent.

Credits: 3.

#### **EDLI 277 - Info Tech Schl Libr Media Ctrs**

Selecting, using, and maintaining full range of media equipment, including audiovisual and computer based systems. Designing and improving presentation facilities for media. Prerequisite: EDLI 272 or equivalent.

Credits: 3.

#### **EDLI 295 - Lab Experience in Educ**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 1-6.

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## **Courses in Literacy**

#### **EDLT 200 - Contemporary Issues**

Credits: 1-6.

#### **EDLT 222 - Cultivate Chil Lit in EI/Mid Sch**

Contemporary research and practice related to the development of strategic, motivated, and independent readers and writers. Emphasis on integrating reading and writing within collaborative environments. Prerequisite: Twelve hours in Education and/or related areas including an introductory course in reading or Instructor permission.

Credits: 3.

#### **EDLT 223 - Read Pgms in Sec Schl & Col**

Relationship of reading to learning study or organization, instructional procedures, and materials for developing reading improvement programs for secondary and college students; reading in content areas. Prerequisite: Twelve hours in Education and/or related areas or Instructor permission.

Credits: 3.

#### **EDLT 228 - Lit in Jr/Sr High Schl Curr**

Literacy Criticism for Teachers.

Credits: 3.

#### **EDLT 234 - Lit & Lang for Chil & Youth**

Characteristics, interests, reading habits of children and youth; selection, evaluation of literature. Organizing book units for teaching literature, for content areas. Emphasis on development of oral, written expression. Prerequisite: Twelve hours in Education and related areas or Instructor permission.

Credits: 3.

**EDLT 236 - Multicultural Children's Lit**

Current research in multicultural education and literacy informs examination of representation and perspective in literature for children and youth. Perspectives include religion, race, gender, SES.

Credits: 3.

**EDLT 295 - Laboratory Experience in Educ**

Credits: 1-6.

**EDLT 319 - Internship for Spec Pers in Ed**

Credits: 1-18.

**EDLT 375 - Lit Assmt:Understand Indiv Dif**

Designing and using assessment strategies to improve and adapt instruction. Identify, evaluate, and document literacy development, emphasizing students at risk of reading failure. Prerequisite: EDLT 222 or Instructor permission.

Credits: 3.

**EDLT 376 - Clin/Tut Appr for Lit Intrvntn**

Approaches for prevention, correction of reading and written language difficulties. Supervised teaching of individuals and/or small groups experiencing reading and language problems. Apprenticeships in reading instructional program. Pre/co-requisite: Three graduate credits in Reading/Language Arts or Instructor permission.

Credits: 3-6.

**EDLT 378 - Adv Stdy/Rsch in Read/Rel LArt**

Survey of research, comparison and evaluation of emerging programs design and development of projects in reading. Prerequisite: Fifteen hours in Education including nine hours in the field of reading and language education; Instructor permission.

Credits: 3.

**EDLT 379 - Seminar in Reading Instruction**

Study of reading relative to total curriculum. Significant trends, concepts related to specific problems, programs in reading and language arts instruction; role of supervisor and reading consultant. Prerequisite: Fifteen hours of Education including nine hours in the field of reading and language education; Instructor permission.

Credits: 3.

**EDLT 380 - Professional Problems in Educ**

Credits: 3.

**EDLT 385 - Critical Issues in Lang&Litrcy**

Explores the relationships between language and literacy and cultural-linguistic influences on language/literacy development. Topics include phonemic awareness, phonics instruction, fluency, comprehension, spelling and writing. Pre/co-requisite: EDLT 222; nine graduate credits in related areas; Instructor

permission.

Credits: 3.

**EDLT 391 - Master's Thesis Research**

Credits: 1-18.

**EDLT 397 - Problems in Education**

Credits: 1-6.

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## Courses in Physical Education-Prof

**EDPE 021 - Foundations of Phys Educ**

as an academic discipline and profession, its foundations, current trends, issues and career opportunities. Prerequisite: Physical Education

Credits: 3.

**EDPE 023 - Amer Red Cross Emergency Resp**

To meet the needs of individuals who are in a position to provide first aid and emergency care frequently. Red Cross certification for successful performance in Advanced First Aid Emergency Care. Prerequisite: PE, HDS, and Health majors; others by Instructor permission.

Credits: 3.

**EDPE 024 - Life Skills: Student Athletes**

This course provides students with skills training for academic and athletic success, alcohol education and prevention, and moral reasoning and decision-making.

Credits: 1.

**EDPE 026 - Water Safety Instructor**

Advanced performance skills in swimming, diving, survival, and rescue techniques. Theory and practice in techniques of teaching aquatic skills. Red Cross certification as Water Safety Instructor or Instructor for Beginning Swimming. Prerequisite: Current Red Cross Lifesaving Certificate.

Credits: 2.

**EDPE 032 - Recreational Sport Officiating**

Basic techniques and skills of rule interpretation for officiating recreational sport competition.

Credits: 2.

**EDPE 054 - Hist, Phil, and Trends in Rec**

Review of chronological history of evolution of recreation movement; examination of past and emerging theories and philosophies of recreation and leisure; exploration of trends in recreation and leisure and probable impact on our life styles.

Credits: 3.

**EDPE 055 - Special Topics I**

Credits: 1-6.

**EDPE 100 - Integ Movement/Elem School Cur**

Planning and implementing movement-based lessons and integrating movement across the curriculum for children aged 5-12.

Credits: 2.

**EDPE 104 - Phys Educ Teaching Experience**

Experience-based course sequence emphasizing relationship of motor development to learning. Includes age level needs and appropriate physical education activity sequences. First semester: grades K-3; second semester (EDPE 105); grades 4-6. Prerequisites: EDPE 023 or EDPE 157; Junior standing.

Credits: 5.

**EDPE 105 - Phys Educ Teaching Experience**

Junior standing.

Credits: 5.

**EDPE 121 - Coaching Baseball**

Theory and technique of coaching interscholastic baseball. Includes practice, game, and schedule organizations. Prerequisite: Skill competency in baseball; Sophomore standing, or Instructor permission.

Credits: 0-2.

**EDPE 123 - Coaching Softball**

Theory and technique of coaching interscholastic softball. Includes practice, game, and schedule organizations. Prerequisite: Skill competency in softball; Sophomore standing, or Instructor permission.

Credits: 2.

**EDPE 145 - Seminar in Athletics**

Contemporary issues, strategy, analysis, and problems areas related to selected comparative sports.

Credits: 3.

**EDPE 155 - Phys Educ in Secondary SchI**

Theories of teaching which include unit plan development, classification and grouping of students for instruction, and a variety of teaching methods. Laboratory experience in teaching activity skills to youth aged 12-18. Prerequisites: Junior standing; PE majors only.

Credits: 3.

**EDPE 166 - Kinesiology**

Designed for the teacher/coach to analyze factors of peak physical performance. Muscle actions, mechanical principles, related factors enhancing movement are emphasized. Prerequisite: One year of biological science; PE majors, coaching minors, students enrolled in Athletic Training Concentration, Sports Nutrition; others by instructor's permission.



Credits: 3.

**EDPE 167 - Exercise Physiology**

of bodily responses during exercise. Content includes energy metabolism, muscular, cardiovascular, Prerequisites: PE majors, coaching minors, sports nutrition, Athletic Training; others by instructor's permission.

Credits: 4.

**EDPE 168 - Measurement&Data Analysis**

Introductory statistics and research design class. Covers basic statistics--t-tests, measurement scales, discussed. Prerequisites: EXSS majors only; others by instructor's permission. Anova, correlations, etc. Application in physical education and exercise science are specifically

Credits: 1 or 3.

**EDPE 173 - Practicum in Field Experience**

Individually prescribed teaching experience involving work with youth groups in activities related to physical education, health, or recreation. Responsibilities approximate those commonly associated with student teaching. Prerequisites: EDPE 104, EDPE 105, or EDPE 155; Instructor permission.

Credits: 1-4.

**EDPE 181 - Student Teaching**

Teaching in elementary or secondary schools under guidance of cooperating teachers, principals and college supervisors. A full-time, full semester, 12-credit experience. Prerequisites: Acceptance into the teacher education program; must meet criteria for student teaching. Variable credit, three to twelve hours.

Credits: 3-12.

**EDPE 182 - Student Teaching Seminar**

Prerequisite: Concurrent with EDPE 181.

Credits: 2.

**EDPE 185 - Injury Eval&Rec: Athl Training**

Course is integrative and clinical in nature, consisting of injury evaluation and recognition skills. Injury mechanisms, etiology, pathology, clinical signs and symptoms. Prerequisites: EDPE 157, EDPE 158.

Credits: 4.

**EDPE 195 - Hlth/Fitness Ldrshp&Programmng**

Practical approach to significance, theories, and characteristics of leadership content, and methods of program planning. Field work practice in planning and leadership techniques. Prerequisite: EDPE 021.

Credits: 3.

**EDPE 197 - Readings & Research**

Credits: 1-4.

**EDPE 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 1-6.

**EDPE 201 - Admin of Athletic Programs**

Background for effective administration of the athletic program of schools. Include scheduling, budgeting, management, equipment, policy, public relations, and education justification. Prerequisite: Twelve hours of education and Psychology.

Credits: 3.

**EDPE 203 - Principles of Physical Ed**

Principles basic to sound philosophy of physical education for appraisal of historical development; relationship to health education, recreation, and other areas; foundation and functions of physical education. Prerequisite: Admission to the program and Instructor permission.

Credits: 3.

**EDPE 220 - Sport in Society**

Examines sport as a social institution, emphasizing interrelationships between sport and the social context in which it exists; analyzes functions and dysfunctions of sport in contemporary society. Prerequisite: SOC 001, SOC 019, or equivalent.

Credits: 3.

**EDPE 240 - Motor Skill Learning & Control**

Nature of motor learning; factors affecting motor learning (motivation, emotion, stress); concepts of transfer, retention; alternatives in teaching, coaching methodologies based upon applied principles in motor learning. Prerequisites: 166, ECHD 62 or 63, or equivalent.

Credits: 3.

**EDPE 241 - Sem in Phys Educ & Athletics**

Examination and analysis of contemporary issues and trends in physical education and athletics not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in physical education and related areas.

Credits: 2-4.

**EDPE 260 - Adapted Physical Activity**

Recognition, prevention, correction of functional, structural deviations from normal body mechanics. Organization of programs adapted to needs of handicapped individuals in both special class and mainstreamed settings. Prerequisite: 155, 104, 105 or equivalent teaching experience.

Credits: 3.

**EDPE 265 - Exercise & Sport Science**

Discussion and integration of topics related to exercise physiology, kinesiology, motor learning, and sociocultural aspects of sport. Prerequisites: 166, 167, 220, 240; senior standing, or permission. UG only.

Credits: 3.

**EDPE 266 - Ex Prescrip:Sprt,Hlth,Fit,Perf**

Course covers basic concepts of exercise prescription and exercise program design. Particular attention is paid participant needs.

Credits: 3.

**EDPE 267 - Sci Strength Training&Condtnng**

Course focuses on physiology of muscle adaptation following resistance or aerobic training. Particular attention is paid to specificity of metabolic adaptation for individual sports.

Credits: 3.

**EDPE 295 - Lab Experience in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 1-12.

**EDPE 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-12.

**EDPE 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

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## Courses in Family&Consumer Sciences

**EDFC 055 - Special Topics I**

Credits: 2-6.

**EDFC 123 - Methods In Nutrition Education**

institutional settings emphasizing interpersonal communication and group process skills.

Credits: 3.

**EDFC 197 - Readings and Research**

Credits: 1-4.

**EDFC 200 - Contemporary Issues**

Credits: 1-6.

**EDFC 220 - Fam&Consumer Sci/Contemp Schl**

Required for licensure. Exploration of education options in a variety of family and Consumer Sciences related areas and in different types of schools and programs.

(Not offered for graduate credit).

Credits: 3.

**EDFC 221 - Mgmt School Youth Organization**

Includes observation and participation in school related activities. (Not offered for graduate credit).

Credits: 2.

**EDFC 222 - Curriculum Dev Human Sciences**

contributions of human science education as related to Spring in odd number years.

Credits: 3.

**EDFC 224 - Evaluation In Human Sciences**

Test, questionnaire, interview schedule construction, and other non-testing means of evaluation. Usability, objectivity, validity, reliability, and discrimination of evaluation instruments. Selected sociometric techniques and evaluation in affective domain. Spring.

Credits: 3.

**EDFC 225 - Teaching Pract: Human Sciences**

Teaching in middle or secondary schools under guidance of cooperating teachers and college supervisor. Credits variable up to 15 hours per semester. (Not offered for graduate credit).

Credits: 1-15.

**EDFC 295 - Lab Experience in Education**

Credits: 1-15.

**EDFC 296 - Special Topics**

Credits: 1-15.

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## Courses in Family&Consumer Sciences

**EDFC 055 - Special Topics I**

Credits: 2-6.

**EDFC 123 - Methods In Nutrition Education**

institutional settings emphasizing interpersonal communication and group process skills.

Credits: 3.

**EDFC 197 - Readings and Research**

Credits: 1-4.

**EDFC 200 - Contemporary Issues**

Credits: 1-6.

**EDFC 220 - Fam&Consumer Sci/Contemp Schl**

Required for licensure. Exploration of education options in a variety of family and Consumer Sciences related areas and in different types of schools and programs. (Not offered for graduate credit).

Credits: 3.

**EDFC 221 - Mgmt School Youth Organization**

Includes observation and participation in school related activities. (Not offered for graduate credit).

Credits: 2.

**EDFC 222 - Curriculum Dev Human Sciences**

contributions of human science education as related to Spring in odd number years.

Credits: 3.

**EDFC 224 - Evaluation In Human Sciences**

Test, questionnaire, interview schedule construction, and other non-testing means of evaluation. Usability, objectivity, validity, reliability, and discrimination of evaluation instruments. Selected sociometric techniques and evaluation in affective domain. Spring.

Credits: 3.

**EDFC 225 - Teaching Pract: Human Sciences**

Teaching in middle or secondary schools under guidance of cooperating teachers and college supervisor. Credits variable up to 15 hours per semester. (Not offered for graduate credit).

Credits: 1-15.

**EDFC 295 - Lab Experience in Education**

Credits: 1-15.

**EDFC 296 - Special Topics**

Credits: 1-15.

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## Courses in Art Education

**EDAR 140 - Foundation Studio El Ed Majors**

Students select a foundation studio course, ART 002, ART 003 or ART 004 from those sections designated each semester on the course schedule. See course descriptions listed under ART.

Credits: 3.

**EDAR 177 - Curriculum & Pract in Elem Art**

Study and implementation of curriculum in elementary school. Students work directly in an elementary classroom. Lectures and discussions. Prerequisite: Eighteen hours Studio Art; Junior standing.

Credits: 4.

**EDAR 178 - Curriculum&Pract Middle/HS Art**

Study and implementation of curriculum in middle and high school. Students work directly in a middle or high school. Lectures and discussions. Prerequisite: Eighteen hours Studio Art; Junior standing.

Credits: 4.

**EDAR 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisites: Twelve hours in education and related areas. One to six hours.

Credits: 1-6.

**EDAR 283 - Current Issues in Art & Ed**

Research and discussion of issues relevant to contemporary art and the teaching of art. Prerequisite: Senior standing or permission.

Credits: 3.

**EDAR 284 - Current Issues in Art & Ed**

Research, discussions, and field work relevant to contemporary art and the teaching of art. Prerequisite: Junior standing or permission.

Credits: 3.

**EDAR 295 - Laboratory Experience in Educ**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences; One to six hours.

Credits: 1-15.

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## Courses in Education

**EDSS 001 - Schooling, Learning & Society**

Introduction to issues and problems in American education: schools and learning, professional careers, individuals in systems, characteristics of learners. Required readings and papers.

Credits: 3.

**EDSS 010 - ACCESS Education**

disabilities, and study skills. Create a safe community to discuss disability-related issues. Introduce students to organizational systems, goal setting, learning styles, self-advocacy,

Credits: 1.

**EDSS 011 - Race and Culture**

and in our country as a whole. Introduction to issues of diversity, multiculturalism

Credits: 1.

**EDSS 012 - Race&Culture Contemp Issues**

Gives an expanded introduction to US social justice issues. Forms of discrimination that shape US culture explored and skills in self-reflection and critical analysis developed.

Credits: 1.

**EDSS 055 - Special Topics**

Credits: 1-6.

**EDSS 195 - Intermediate Special Topics**

Topics vary. See Schedule of Courses for specific titles.

Credits: 1-6.

**EDSS 196 - Intermediate Special Topics**

Topics vary. See Schedule of Courses for specific titles.

Credits: 1-6.

**EDSS 197 - Readings & Research**

Credits: 1-4.

**EDSS 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 0-6.

**EDSS 211 - Educational Measurements**

Topics include validity, reliability, principles of test construction, item analysis, and analysis of standardized hours in education and related areas.

Credits: 3.

**EDSS 215 - The Gifted Child**

Credits: 3.

**EDSS 238 - Teaching W/Global Perspective**

Approaches to teaching global and multicultural issues:

Credits: 3.

**EDSS 239 - S.L.I.P. Seminar**

Professional education course designed to facilitate student's integration of academic, social, personal, and career objectives through seminar or project syllabus method of support for internship experience in the community.

Prerequisite: Instructor's permission, junior standing. UG only.

Credits: 1-12.

**EDSS 245 - Microcomp Appl in Education**

For elementary, secondary educators with experience in simple programming.

Design of instructional procedures, integrating computers into school curriculum.

Use of computer software to teach basic skills, reasoning, thinking skills.

Prerequisite: CS 003 or equivalent; Instructor permission.

Credits: 3.

**EDSS 248 - Educational Media**

Modern instructional aids, theory and practice, educational media related to psychology of teaching and learning. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.

**EDSS 261 - Current Dir:Curric&Instruction**

Current trends, issues, literature, programs, and organizational activities in fields of curriculum and instruction emphasizing areas of individual concern. Focus on elementary and secondary school levels. Prerequisite: Twelve credits in education or equivalent.

Credits: 3.

**EDSS 295 - Laboratory Exp in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 0-6.

**EDSS 309 - Interdisciplinary Seminar**

Introduction to interdisciplinary study; the field of policy analysis and social change. Core academic experience for Interdisciplinary Majors. Prerequisite: Interdisciplinary majors; others by Instructor permission.

Credits: 3.

**EDSS 313 - Stat Meth Ed & Social Services**

Basic concepts of descriptive and inferential statistics. Topics: frequency distributions; measures of central tendency, dispersion; correlation, hypothesis testing. Application of concepts to educational situations.

Credits: 3.

**EDSS 319 - Internship**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Instructor permission.

Credits: 1-6.

**EDSS 321 - School Improvement:Thry & Prac**

Analysis of research and practices pertinent to improvement of American schools. Student assignments include synthesis papers and site-specific research projects derived from course studies. Prerequisite: Twelve hours of Graduate study in education.

Credits: 4-6.

**EDSS 333 - Curr Concepts, Planning & Dev**

Overview of conceptions of curriculum for elementary and secondary education; examination of contemporary curriculum trends, issues; processes for initiating,



planning, developing curriculum activities and programs. Prerequisite: Twelve hours of education or Instructor permission.

Credits: 3.

**EDSS 336 - Professional Writing**

Problems in writing faced by professionals in educational and human service settings. Students write reports, critiques, reviews; analyze examples of published work; receive detailed critiques of their work.

Credits: 3.

**EDSS 343 - The Study of Teaching**

Study of the art and science with emphasis on students' own teaching. Current research on teaching and self-study are major foci. Prerequisite: Twelve hours of education; teaching experience.

Credits: 3.

**EDSS 349 - Quasi-Experiment in Ed & SS**

Quasi-experimental designs are analyzed, compared, and contrasted with "true experiments." Strategies for addressing threats to the validity of quasi-experiments are studied. Design exemplars are evaluated. Prerequisite: EDSS 313, PSYC 340, STAT 211, or equivalent.

Credits: 3.

**EDSS 363 - Sem:Anyl of Curr & Instruction**

A case study analysis of the design, implementation, and evaluation of selected curricular and instructional improvements. Prerequisite: Ed.D. students have priority.

Credits: 3.

**EDSS 380 - Professional Problems in Ed**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.

**EDSS 382 - Teaching Internship**

Supervised teaching experiences on a full-time basis, with related seminars in teaching subject. Prerequisite: Permission of coordinator of Professional Laboratory Experiences.

Credits: 3-12.

**EDSS 387 - Collaborative Consultation**

Adult development and group dynamics theory provide the knowledge base for collaborating with parents and teachers to meet the diverse needs of students with disabilities. Cross-listed with: EDSP 387.

Credits: 3.

**EDSS 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-6.

### **EDSS 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

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## **Courses in Elementary Education**

### **EDEL 010 - Intro to Teaching & Learning**

Orientation to professional program. Introduction to research base for meaningful teaching and learning. Analysis of teaching autobiographies by successful teachers. One credit each semester for two consecutive semesters.

Credits: 1-2.

### **EDEL 011 - Computers in El Ed Classroom**

Students use the University's network and internet, exchange e-mail, construct electronic portfolios, and examine software to help them in their studies and future classrooms.

Credits: 3.

### **EDEL 024 - Learners and Learning Process**

Distinctions among dominant theories of learning and development. Learning theories applied to selected issues derived from context of schools. Students work with individual learner in appropriate setting.

Credits: 3.

### **EDEL 055 - Special Topics**

Credits: 2-6.

### **EDEL 056 - Teachers&the Teaching Process**

Students examine lives of teachers, demands of the profession, and selected models of teaching. Student observation of teachers in appropriate settings and knowledge of learning and development. Prerequisite: EDEL 010, EDEL 024; concurrent with EDEL 177, EDSP 005.

Credits: 3.

### **EDEL 155 - Lab Experience in Inquiry**

Supervised practicum in field sites. Implementation of teaching methods from Inquiry Block. Documentation of classroom work, child study, and development of portfolio. Prerequisite: Admission to Elementary Teacher Education Program; concurrent with EDEL 157, EDEL 158, EDEL 159.

Credits: 3.

### **EDEL 156 - Teaching Math for Meaning**

Methods of teaching mathematics in elementary school. Research base for how children learn mathematics and how math curriculum is organized. Special focus

on teaching diverse groupings of learners. Prerequisite: Admission to Elementary Teacher Education Program; concurrent with EDEL 175, EDEL 176, EDEL 178.

Credits: 3.

**EDEL 157 - Social Ed and Social Studies**

Methods of social education for elementary-aged school children. Promoting children's efficacy by nurturing personal interests. Development of folio of developmentally-sound examples of social studies learning. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with EDEL 155, 158, 159.

Credits: 2.

**EDEL 158 - Teaching Science for Meaning**

Methods of science education for elementary-aged school children. Translate science content into meaningful science inquiry. Preparation of demonstration teaching lessons. Prerequisites: Admission to the Elementary Teacher Education Program; concurrent with EDEL 155, 157, 159.

Credits: 2.

**EDEL 159 - Visual & Performing Arts, K-6**

Incorporation of the visual and performing arts in elementary school curriculum. Focus on artistic expression as a way of learning. Emphasis on cross-cultural art, music, drama. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with 155, 157, 158.

Credits: 2.

**EDEL 175 - Lab Experience in Literacy**

Supervised practicum in a field site. Implementation of teaching methods from Literacy Block. Documentation of classroom work, child study, and development of portfolio. Prerequisite: Admission to Elementary Teacher Education Program; concurrent with EDEL 156, EDEL 176, EDEL 178.

Credits: 3.

**EDEL 176 - Language Arts&Literacy Skills**

Cognitive research base for the social context of children's learning. Methods of language arts as literate activity. Emphasis on emergence of literacy in the child of special need. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with EDEL 156, EDEL 175, EDEL 178.

Credits: 3.

**EDEL 177 - Children's Lit & Literacy**

Learning about the breadth of literature available for use in elementary school. Developing the ability to evaluate and use literature in reading and writing activities. Emphasis on bias-free methods. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with EDEL 56, EDSP 5.

Credits: 2.

**EDEL 178 - Mtg Indiv Needs:Assmt&Instruct**

Methods of responding to individual differences within a heterogeneous classroom. Sources of student variability, developing settings of least restriction, and appropriate assessment strategies. Prerequisites: Admission to Elementary Teacher Education Program; concurrent with EDEL 156, 175, 176.

Credits: 2.

### **EDEL 181 - Student Teaching**

Credits: 3-12.

### **EDEL 185 - Student Teaching Internship**

Supervised student teaching internship in field site. Fifteen-week total immersion as a beginning teacher. Responsibilities specified in internship handbook. Documentation of activities for professional portfolio. Concurrent with EDEL 187 and EDEL 188. Prerequisite: Method Blocks in Inquiry and Literacy. Variable credit.

Credits: 3-12.

### **EDEL 186 - Seminar in Student Teaching**

Credits: 3.

### **EDEL 187 - Plan, Adapt, Deliv Rdg Instruct**

Methods of diagnostic teaching in reading and writing. Identifying components of effective programs and use of research findings to deliver instruction in meaningful contexts. Documentation of personal model of literacy for professional portfolio. Prerequisite: Method Block in Literacy; EDEL 156, EDEL 176, EDEL 177.

Credits: 3.

### **EDEL 188 - Principles of Classroom Mgmt**

Application of basic learning principles to classroom management. Creation of behavior management plans with emphasis on social and academic behavior of diverse groupings of children. Concurrent with EDEL 185 and EDEL 187. Prerequisite: Method Blocks in Inquiry and Literacy.

Credits: 2.

### **EDEL 189 - Portfolio Dev&Reflective Pract**

This course develops candidates' critical reflectivity on their knowledge and expertise of classroom teaching through the construction of a professional portfolio. Prerequisite: Concurrent with EDEL 185 and EDEL 188.

Credits: 1.

### **EDEL 197 - Readings & Research**

Credits: 1-4.

### **EDEL 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 0-3.

**EDEL 241 - Science for Elem Schools**

Examination of elementary school science programs. Emphasis on methods and materials relating to construction, use of science units for children in grades K-6. Prerequisite: Twelve hours in education and related areas or Instructor permission. Credits: 3.

**EDEL 244 - Social Studies in Elem Schls**

Study of literature, research, and problems in teaching social studies in the elementary school. Prerequisite: Twelve hours in education and related areas. Credits: 3.

**EDEL 256 - Methods & Materials in Math**

Evolution of mathematical concepts, notations. Meaning of numbers, number-systems. Theory underlying fundamental operations, metric measurements, analysis of modern approach to mathematics. Manipulative approach to teaching mathematics. Prerequisite: Twelve hours in education and related areas. Credits: 3.

**EDEL 270 - Kindergarten Methods & Org**

Objectives, organization, curriculum, methods and materials, and relationships of kindergarten preschool experiences. Prerequisite: Twelve hours in Education and related areas. Credits: 3.

**EDEL 271 - Kindergarten Educ W/Lab**

Designed to acquaint the prospective kindergarten teacher with educational research conducted by Piaget, Bruner, Montessori, and others with experiences provided for working with children of kindergarten age. Prerequisite: Twelve hours in Education and related areas. Credits: 3.

**EDEL 295 - Lab Experience in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences. Credits: 1-12.

**EDEL 319 - Internshp Specialzd Personnel**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Instructor permission. Credits: 1-6.

**EDEL 380 - Professional Problems in Ed**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area. Credits: 3.

**EDEL 382 - Teaching Internship**

Supervised teaching experiences on a full-time basis, with related seminars in teaching subject. Prerequisite: Permission of coordinator of Professional Laboratory Experiences.

Credits: 3-8.

**EDEL 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-18.

**EDEL 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

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## Courses in Foundations

**EDFS 197 - Readings and Research**

Credits: 1-4.

**EDFS 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.

**EDFS 203 - Soc, Hst & Phil Found of Educ**

Critical examination of central educational/social issues and values with special emphasis on the struggle for justice and equality. Themes include schooling and social class, race, and gender; the purposes of education; and the responsibilities of teachers. Prerequisite: Enrollment in teacher licensing program.

Credits: 3.

**EDFS 204 - Sem in Educational History**

Selected topics in history of education. Education in democratic and authoritarian social orders. Topics: education of women, black heritage, American higher education in transition. Prerequisite: Twelve hours in Education and related areas or Instructor permission.

Credits: 3.

**EDFS 205 - History of American Education**

Educational principals and practices in the U.S. as they relate to the main currents of social history. Key ideas of historic and contemporary significance. Prerequisite: Twelve hours in Education and related areas or Instructor permission.

Credits: 3.

**EDFS 206 - Comparative Education**

Examines educational challenges confronting countries around the world. Explores issues related to sustainable development, diversity, citizenship, and justice in formal and nonformal educational contexts. Prerequisite: Twelve hours in Education and related areas.

Credits: 3.

**EDFS 209 - Intro to Research Methods**

Seminars and research projects. Methods of historical, descriptive, experimental, quasi-experimental, field studies, and survey research.

Credits: 3.

**EDFS 255 - School as Social Institution**

Examination of the school and related social institutions, focus on themes, including: social class, race, ethnicity, socialization, role of the family, social change. Prerequisite: Twelve hours of Education and related areas.

Credits: 3.

**EDFS 295 - Lab Experience in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 1-6.

**EDFS 302 - Philosophy of Education**

Critical examination of key beliefs and values in current philosophies of helping, e.g. phenomenological, behavioral, holistic, as practiced in a variety of educational and social service institutions. Prerequisite: Twelve hours in education and related areas.

Credits: 3.

**EDFS 303 - Ethics Helping Relationships**

Clarification of ethical dimensions of professional rights and obligations for educators, counselors, administrators, other helping professionals. Examination of selected ethical controversies currently facing the helping professionals.

Prerequisite: Twelve hours in education and related areas.

Credits: 3.

**EDFS 304 - Religion, Spirituality & Ed**

A narrative approach to thinking about religion and spirituality and theoretical and practical implications for policy making, pedagogy, curriculum development, and educational leadership.

Credits: 3.

**EDFS 309 - Schol Pers Narr Writing:ED&SS**

A workshop for educational writers of theses, dissertations, and scholarly articles. Students will be introduced to critical theory, postmodern, feminist, and narrativist conceptions of educational writing.

Credits: 3.

**EDFS 314 - Modes of Inquiry**

A critical analysis of the various conceptual and methodological foundations of theory and practice in education and the human services. Prerequisite: Twelve hours in education and related areas.

Credits: 3.

**EDFS 322 - Chall Multicultrsm/Ed&Soc Inst**

Critical analysis of social, historical, and philosophical dimensions of multiculturalism. Examination of identity, empowerment, and justice and their relationships to educational/social policies and practices. Prerequisite: Twelve hours in education and related areas.

Credits: 3.

**EDFS 347 - Qualitative Research Methods**

Introduces students to qualitative methods as a research paradigm and develops skills in ethnographic techniques of field observation, interviewing, and data analysis. Out-of-class fieldwork required. Prerequisite: Master's or doctoral level standing or Instructor permission.

Credits: 3.

**EDFS 348 - Analyze&Write Qualitative Rsch**

This course extends students' knowledge of and experience with qualitative research analysis and writing. Students must come with data collected previous to the start of the course. Prerequisite: EDFS 347 or Instructor Permission.

Credits: 3.

**EDFS 352 - Aesthetic Ed & Social Justice**

Exploration of art that deepens understanding of educational and social problems. Focus on artists who challenge dominant powers. Incorporates democratic perspectives on art and aesthetics. Prerequisite: Twelve hours in education and related areas.

Credits: 3.

**EDFS 354 - Anth Persp on Ed & Soc Serv**

Examination of formal and non-formal education as means to produce and alleviate cultural conflict. Incorporates an autobiographical approach to studying socio-cultural implications of schooling and social services. Emphasis on Third World situations. Prerequisite: Twelve hours in education and related areas.

Credits: 3.

**EDFS 369 - Ethics in Ed & Soc Serv Admin**

Critical examination of theories of ethical decision making. Implications for leadership in educational, social service settings. Ethical investigation utilizing research, scholarship, actual incidents, case studies, role playing. Prerequisite: Ed.D. students have priority.

Credits: 3.

**EDFS 377 - Seminar Educational Psychology**



Personal values, attitudes, beliefs related to learning. Psychological research of the teaching-learning process. Research use in analysis of educational processes. Applications for educational settings. Prerequisite: Twelve hours in education and related areas.

Credits: 3.

### **EDFS 380 - Professional Problems in Educ**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.

### **EDFS 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-18.

### **EDFS 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

### **EDFS 455 - Soc Process & Institutionl Chg**

Critical analysis of theory and research related to justice, caring, and change in education and other social institutions. Focus: ideology, diversity, and management of knowledge. Prerequisite: Doctoral level standing.

Credits: 3.

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## **Courses in Leadership and Policy Studies**

### **EDLP 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 0-6.

### **EDLP 264 - Evaluation in Ed & Soc Srvcs**

For educational and social service personnel. Overview of the state-of-the-art of evaluation, emerging concepts, related models. Potential applications to settings; systematic data analysis. Prerequisite: Twelve hours in education or Instructor permission.

Credits: 3.

### **EDLP 266 - Educational Finance**

National, state, and local practices in educational financing and taxation; educational policies and incentives in funding; other revenue sources; financial expenditure procedures. Prerequisite: Twelve hours in education or Instructor

permission.

Credits: 2-3.

**EDLP 268 - Educational Law**

Legal basis for education. State and Federal statutes; related court cases; Attorney General opinions; Special Education procedures; Vermont State Board and State Education Department policies; regulations. Prerequisite: Twelve hours in education or Instructor permission.

Credits: 2-3.

**EDLP 280 - SchI Business Mgmt**

Analysis of basic management concepts applied to administering schools. Topics include leadership/management trends, types of budgets, risk management, planning, and other personnel and business operations issues. Prerequisite: Twelve hours in education.

Credits: 3.

**EDLP 291 - Spec Tpcs in Org&Hum Res Dev**

Special issues in counseling, administration and planning, social work, or higher education not appropriate to content of existing courses. Courses will reflect the social services orientation of the Department of Education.

Credits: 1-6.

**EDLP 295 - Lab Experience**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 1-6.

**EDLP 319 - Internship**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Instructor permission.

Credits: 1-6.

**EDLP 332 - Seminar in Admin & Planning**

Opportunity for students to experience, apply selected administration and planning concepts, skills through seminar and selected simulations of public school and social service organizational settings.

Credits: 3.

**EDLP 334 - Effecting & Managing Change**

Change processes and models, the dynamics of change within the organization, and external factors affecting change. Managerial, leadership, and organizational factors and conditions impacting on innovations; change phases of initiation, implementation, and institutionalization. Prerequisite: Twelve hours of Graduate study.

Credits: 3.

**EDLP 335 - Staff Evaluation & Development**

Supervisory roles, behavior, responsibilities, and relationships in educational and social service organizations; processes for evaluating the performance, promoting the development of staff, and increasing organization effectiveness.

Credits: 3.

**EDLP 336 - Curr Mgmt in Ed & Soc Srv Org**

Approaches to coordinating and managing curriculum or programs at the classroom, department, or organizational level; examination of factors effecting design and delivery of curriculum; developing curriculum guides and assessment methods. Prerequisite: Eighteen hours of education and related areas or appropriate professional certification.

Credits: 3.

**EDLP 337 - Political Proc in Ed & Soc Srv**

Political and operational relationships between schools, agencies, and other organizations at all governmental levels. Policy development, working with policy boards, and coordinating organizational and community activities.

Credits: 3.

**EDLP 352 - Analysis of Educ & Soc Srv Org**

Organizations as open or closed systems; examinations of goals, power, conflict, leadership, decision-making roles, communication; diagnosing causes of organizational problems; factors aiding, impeding organizational change.

Credits: 3.

**EDLP 353 - Sem:Organizational Leadership**

Roles, functions, relationships and responsibilities in maintaining and changing organizations; leadership styles and behavior; trends and issues impacting on organizations.

Credits: 3.

**EDLP 354 - General & Soc Systems Theory**

General Systems Theory is analyzed in terms of its utility for examining social systems, macrosystems analysis of research, planning, and interdisciplinary dialogue.

Credits: 3.

**EDLP 355 - System Analysis & Planning**

An analysis of and experience with planning theories and techniques that derive from General Systems Theory.

Credits: 3.

**EDLP 356 - Sem in Futurism & Planning**

Knowledge, values, attitudes relating to concepts about the future; alternative futures, trend analysis, goal setting; planning processes applied to educational and social service organizations.

Credits: 3-6.

**EDLP 357 - Sem in Futurism & Planning**

Knowledge, values, attitudes relating to concepts about the future; alternative futures, trend analysis, goal setting; planning processes applied to educational and social service organizations.

Credits: 3-6.

**EDLP 358 - Sem in Community Education**

The seminar participants will analyze the Community Education process, relate the process to community development, and develop strategies for the planning and implementation of Communication Education.

Credits: 3.

**EDLP 367 - Human Behavior in Educ Systems**

This course will enable students in the Doctorate in Education program to understand and assess human behavior as it affects and is affected by education systems. Prerequisite: Ed.D. students have priority.

Credits: 3.

**EDLP 372 - Leadership&Creative Imaginatn**

Leadership in societal organizations as presented in literature, other media. Students will demonstrate abilities to integrate leadership theory, principles, personal beliefs, practices with literary and other media models. Prerequisite: Ed.D. students have priority.

Credits: 3.

**EDLP 380 - Professional Problems in Educ**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 0-3.

**EDLP 386 - Org & Human Resource Dev**

The concept and practice of organization development, analysis of and laboratory experience in the utilization of intervention methodologies. Prerequisite: One course relating to human relations; one course relating to organizations or equivalent, or Instructor permission.

Credits: 3.

**EDLP 387 - Collaborative Consultation**

Cross-listed with: EDSP 387.

Credits: 3.

**EDLP 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-12.

**EDLP 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisites: Twelve hours in education and related areas;

endorsement by a sponsoring faculty member.

Credits: 1-6.

**EDLP 409 - Applied Educational Research**

Introduction to philosophical and methodological foundations of interpretive and empirical-analytic research with emphasis on systems change. Preparation of critical readers and synthesizers of research studies. Prerequisite: Doctoral level standing.

Credits: 3.

**EDLP 431 - Adv Sem Organizational Ldrshp**

Students inquire into new theories on leadership and the cognitive processes that define the intentions, values, beliefs, and future perspectives of themselves as leaders. Prerequisite: Doctoral level standing.

Credits: 3.

**EDLP 432 - Adv Sem:Org Chng&Hum Res Dev**

Students inquire into new theories, themes, and multicultural dimensions of organizations. Strategies for managing human resources, structural issues, and future trends in organizations are analyzed. Prerequisite: Doctoral level standing.

Credits: 3.

**EDLP 437 - Sem on Educational Policy**

An examination of the nature and function of education policy, emphasizing the structure and processes in education policy formulation and implementation. Prerequisite: Doctoral level standing.

Credits: 3.

**EDLP 491 - Doctoral Dissertation Research**

Credits: 1-12.

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## Courses in Middle Level Teacher Education

**EDML 010 - Introduction to Teaching**

Orientation to teaching at middle level. Examination of young adolescent students, teachers' roles, middle schooling and the middle school concept. Prerequisites: Admission to Pre-professional teaching education.

Credits: 1.

**EDML 024 - Learners, Development&Learning**

Students learn about the interrelated processes of development and learning throughout childhood but with special emphasis on the approximate ages of ten to fourteen. Prerequisite: EDML 010.

Credits: 3.

**EDML 055 - Special Topics I**

Credits: 2-6.

**EDML 056 - Teachers & Teaching Process**

Students examine professional responsibilities of middle level teachers as defined by Vermont and national standards via classroom observations. Prerequisite: EDML 010, EDML 024.

Credits: 3.

**EDML 171 - Teaching Practicum II**

Second teaching practicum on a middle level team to learn policy, curriculum, exemplary pedagogy, assessment in second of two academic concentrations defined by student's IDIMC plan. Prerequisite: Admission to Middle Level Professional Program.

Credits: 3.

**EDML 197 - Readings & Research**

Credits: 1-4.

**EDML 200 - Contemporary Issues**

Credits: 1-6.

**EDML 207 - Adoles Lrng&Beh&Cog Perspect**

Indepth examination of cognitive learning theory and its background in behavioral and other learning theories, with application to teaching in a middle or secondary setting. Pre/co-requisites: Acceptance to licensing program. (Crosslisted with EDSC 207).

Credits: 3.

**EDML 260 - Teaching Young Adolescents**

Focus on understanding and reflecting on an integrative developmental approach to the design of middle level curriculum, with an emphasis on literacy and numeracy.

Credits: 3-6.

**EDML 261 - Middle Level Teaching Pract**

Teaching practicum on middle level team in two areas of academic concentration, acquiring knowledge of and skills in curriculum, pedagogy, and assessment.

Pre/co-requisite: Admission to Middle Level Professional Program.

Credits: 3.

**EDML 270 - Middle School Org & Pedagogy**

Focuses on exploring theory and practice in responsive school organization for young adolescents, including interdisciplinary/partner teaming, block scheduling, and teacher advisories, as well as teaching lessons in one area of specialization. Pre/co-requisite: EDML 260, EDML 261.

Credits: 3-6.

**EDML 285 - Middle Level Student Teaching**

Full-time supervised student teaching internship as a member of a middle school team. Development of a professional portfolio as stipulated in the Middle Level Program Handbook. Pre/co-requisite: EDML 260, EDML 261, EDML 270, and

Instructor permission.

Credits: 9-12.

### **EDML 286 - Internship Support Seminar**

Seminar addresses and responds to internship experiences including planning, classroom management, team work, and assessment of learning. Guidance in development of Professional Teaching Portfolio. Pre/co-requisites: EDML 260, 261, 270.

Credits: 1.

### **EDML 287 - Literacy & Mathematics**

All middle level teachers are expected to teach reading, writing, literature and mathematics. This course is the capstone for work previously done in these pedagogies. Pre/co-requisite: Successful completion of EDML 260, EDML 261, and EDML 270.

Credits: 3.

### **EDML 295 - Laboratory Experience**

Credits: 1-6.

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## **Courses in Secondary Education**

### **EDSC 011 - Ed Tech in Sec Ed Classroom**

Students are introduced to a variety of uses for information technology in education with particular applications to stimulate and manage a student-centered classroom.

Credits: 3.

### **EDSC 050 - Exploring Education**

field of education. Introduction to philosophical, psychological, sociological questions basic to teaching and learning. Exploration of beliefs and understandings about personal learning and the

Credits: 3.

### **EDSC 055 - Special Topics**

Credits: 1-6.

### **EDSC 197 - Readings & Research**

Credits: 1-4.

### **EDSC 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in education and related areas.

Credits: 3.

### **EDSC 207 - Adolscnt Dev:Ed/Psy Perspec**

In depth examination of developmental and learning theory with applications for

teaching in secondary settings. Core activities: exploration of personalization in education and service learning. Co-requisites: EDFS 203/EDSC 209

Credits: 3.

### **EDSC 209 - Practicum in Teaching**

Field-experience in secondary setting. Focus on school culture and student needs while documenting effectiveness in one-on-one teaching. Professional attributes/dispositions are critically assessed. Pre/co-requisite: EDFS 203/EDSC 207.

Credits: 3.

### **EDSC 215 - Reading in Secondary Schools**

Theory and methods of reading/writing explored in the context of literacy. Focus on reading, writing, speaking and critical thinking across disciplines. Cultural contexts explored. Pre/co-requisite: EDSC 216.

Credits: 3.

### **EDSC 216 - Curr,Instr&Assmt Sec Schl Tch**

Development of methods related to secondary school teaching. Study and application of constructivist learning theory, differentiation, authentic assessment in planning. Focus on cross-disciplinary collaboration. Co-requisite: EDSC 215.

Credits: 3.

### **EDSC 225 - Tchg Soc Studies in Sec Schls**

Includes multiple teaching modes, questioning techniques, micro-teaching laboratory, analysis of historical content to determine students' prerequisite cognitive skills and processes for construction of historical scenarios. Prerequisite: Twelve hours of education and related areas.

Credits: 3.

### **EDSC 226 - Teaching Internship**

Collaboration with professional teachers in design and implementation of effective instruction, with special focus on developing programs in a high school setting.

Prerequisite: EDSC 203, EDSC 207, EDSC 209, EDSC 215, EDSC 216, and Special Methods.

Credits: 8-12.

### **EDSC 227 - Tchng Science in Sec Schls**

Consideration of science curricula and instructional strategies for grades 7-12. Topics may include: teaching science as problem solving, research in science teaching, affective education through science. Prerequisite: Twelve hours in education and related areas or Instructor permission.

Credits: 3.

### **EDSC 230 - Teaching for Results**

Analysis of planning, curriculum design, teaching, evaluation and classroom management from the perspective of research and practice. Individual tasks culminate in production of a licensure portfolio. Co-requisite: EDSC 226.



Credits: 3.

**EDSC 240 - Teach English:Secondary School**

Approaches to teaching composition, literature, and the English language in secondary school. Prerequisite: Acceptance into licensure program.

Credits: 3.

**EDSC 257 - Tchg Math in Secondary Schools**

Contemporary secondary school mathematics curricula and instructional strategies for grades 7-12. Topics may include problem solving, research in mathematics education, use of calculators and computers, manipulatives, and evaluation. Prerequisite: Twelve hours in education and related areas or permission.

Credits: 3.

**EDSC 259 - Tchg Foreign Lang in Sec Schls**

language skills and culture. Prerequisite: Acceptance into An overview of language teaching methodology. The learning/ teaching process as it relates to language learning; techniques used in the teaching and testing of second licensure program.

Credits: 3.

**EDSC 295 - Lab Experience**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 1-6.

**EDSC 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

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## Faculty for Education Department

Susan Lee Ashworth

Adjunct Lecturer of Education

Appointed in 2001

Education Department

BS 1975 SUNY New Paltz

MED 1980 University of Vermont

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Craig E. Barringer

Adjunct Lecturer of Education

Appointed in 1997

Education Department

BA 1972 St Lawrence University

PHD 1980 University of Memphis

Search Courses for Craig Barringer

Penny A. Bishop

Professor of Education

Appointed in 1998

Education Department

BA 1992 Norwich University

MED 1995 University of Vermont

EDD 1998 University of Vermont

Search Courses for Penny Bishop

Education Janet H. Bossange  
Senior Lecturer of Education

- Graduate College Appointed in [1995](#)  
[Education Department](#)
- Honors College BA 1973 [Bethany College](#)
- School of Business Administration MED 1979 [Wheelock College](#)  
CAS 1988 [University of Vermont](#)  
EDD 1997 [University of Vermont](#)
- The Rubenstein School of Environment and Natural Resources [Search Courses for Janet Bossange](#)

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Stephen Michael Broer  
Adjunct Lecturer of Education

Appointed in [1987](#)  
[Education Department](#)  
BA 1983 [Marist College](#)  
MS 1986 [Saint John's University](#)  
PSyD 2000 [Antioch University New England](#)  
[Search Courses for Stephen Broer](#)

---

Gary Alan Bruening  
Lecturer of Education

Appointed in [1986](#)  
[Education Department](#)  
BS 1982 [College of William and Mary](#)  
MED 1984 [University of Virginia](#)  
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---

Megan Chamberlain  
Lecturer of Education

Appointed in [2006](#)  
[Education Department](#)  
BS 2002 [University of New Hampshire](#)  
[Search Courses for Megan Chamberlain](#)

---

Pamela K. Chomsky-Higgins  
Research Associate of Education

Appointed in [2003](#)  
[Education Department](#)  
BS 1974 [Syracuse University](#)  
MED 1975 [Boston College](#)  
[Search Courses for Pamela Chomsky-Higgins](#)

---

John H. Clarke

Professor of Education Emeritus  
[Education Department](#)  
AB 1965 [Princeton University](#)  
MAT 1966 [Harvard University](#)  
EDD 1977 [Northeastern University](#)  
[Search Courses for John Clarke](#)

---

Timothy Comolli  
Adjunct Instructor of Education  
Appointed in [1999](#)  
[Education Department](#)  
BS 1965 [Johnson State College](#)  
MA 1985 [Norwich University](#)  
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---

Declan A. Connolly  
Professor of Education  
Appointed in [1996](#)  
[Education Department](#)  
PGCE 1986 [University of Ulster](#)  
MS 1990 [University of Rhode Island](#)  
PHD 1994 [Oregon State University](#)  
[Search Courses for Declan Connolly](#)

---

Lia Cravedi  
Senior Lecturer of Education  
Appointed in [1989](#)  
[Education Department](#)  
BSED 1977 [Keene State College](#)  
MED 1989 [University of Vermont](#)  
[Search Courses for Lia Cravedi](#)

---

Willard Forrest Currier  
Lecturer of Education  
Appointed in [1987](#)  
[Education Department](#)  
BS 1983 [University of Vermont](#)  
MS 1985 [Western Carolina University](#)  
[Search Courses for Willard Currier](#)

---

E. Bryan Dague  
Research Associate of Education

Appointed in [1992](#)  
[Education Department](#)  
BS 1983 [Syracuse University](#)  
MS 1989 [Syracuse University](#)  
PHD 2006 [University of Vermont](#)  
[Search Courses for E. Dague](#)

---

Ruth E. Dennis  
Lecturer of Education  
Research Assistant Professor of Rehabilitation and Movement Science  
Appointed in [1980](#)  
[Education Department](#)  
[Rehabilitation and Movement Science Department](#)  
BS 1970 [St Mary's College of Maryland](#)  
CERT 1972 [University of Pennsylvania](#)  
MED 1980 [University of Vermont](#)  
EDD 1995 [University of Vermont](#)  
[Search Courses for Ruth Dennis](#)

---

Susan Wilson Edelman  
Research Associate Professor of Education  
Appointed in [1976](#)  
[Education Department](#)  
BS 1973 [University of Pittsburgh](#)  
MED 1979 [University of Vermont](#)  
EDD 1997 [University of Vermont](#)  
[Search Courses for Susan Edelman](#)

---

Joseph Constant Fischer  
Lecturer of Education  
Appointed in [1980](#)  
[Education Department](#)  
BS 1972 [Springfield College](#)  
MA 1977 [University of Vermont](#)  
PHD 1992 [Springfield College](#)  
[Search Courses for Joseph Fischer](#)

---

Edorah J. Frazer  
Lecturer I of Education  
Appointed in [2002](#)  
[Education Department](#)  
BA 1984 [Wesleyan University](#)  
MST 1990 [Antioch University New England](#)

[Search Courses for Edorah Frazer](#)

---

William Charles Freeman

Adjunct Lecturer of Education

Appointed in 2002

[Education Department](#)

BA 1977 [Southern Methodist University](#)

MA 1981 [Goddard College](#)

PHD 1998 [Union Institute and University](#)

[Search Courses for William Freeman](#)

---

Cynthia I. Gerstl-Pepin

Associate Dean of the College of Education and Social Services

Professor of Leadership and Development Science

Appointed in 2002

[Education Department](#)

[Leadership and Developmental Sciences Department](#)

BA 1989 [Bates College](#)

PHD 1998 [University of North Carolina Chapel Hill](#)

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---

Michael Francis Giangreco

Professor of Education

Appointed in 1988

[Education Department](#)

BSED 1977 [SUNY Buffalo](#)

MED 1981 [University of Vermont](#)

EDS 1983 [University of Virginia](#)

PHD 1989 [Syracuse University](#)

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---

Jeanne D. Goldhaber

Associate Professor of Education

Appointed in 1984

[Education Department](#)

BA 1969 [Syracuse University](#)

MED 1972 [Antioch College](#)

EDD 1983 [University of Massachusetts Amherst](#)

[Search Courses for Jeanne Goldhaber](#)

---

Thomas James Gustafson

Lecturer of Education

Vice President for Student & Campus Life

Appointed in [1978](#)  
[Education Department](#)  
BS 1975 [SUNY Geneseo](#)  
MA 1976 [Bowling Green State University](#)  
EDD 1991 [University of Vermont](#)  
[Search Courses for Thomas Gustafson](#)

---

Malai Dale Holland  
Lecturer of Nutrition and Food Sciences  
Research Associate of Education  
Appointed in [1993](#)  
[Education Department](#)  
[Nutrition and Food Sciences Department](#)  
BS 1973 [James Madison University](#)  
MPH 1984 [University of Minnesota Twin Cities](#)  
[Search Courses for Malai Holland](#)

---

Rosalind C Hutton  
Lecturer of Education  
Appointed in [2006](#)  
[Education Department](#)  
BS 2000 [University of Vermont](#)  
[Search Courses for Rosalind Hutton](#)

---

Emina Maria Ibragic-Burak  
Lecturer of Education  
Appointed in [1983](#)  
[Education Department](#)  
BSC 1977 [Southern Illinois University Carbondale](#)  
MSC 1979 [Southern Illinois University Carbondale](#)  
[Search Courses for Emina Ibragic-Burak](#)

---

Lisa H. Italiano  
Research Associate of Education  
Appointed in [2009](#)  
[Education Department](#)  
BS 1980 [University of Vermont](#)  
MED 1984 [University of Vermont](#)  
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Susan K. Jenkins  
Lecturer I of Education

Appointed in [2001](#)  
[Education Department](#)  
BA 1976 [University of Vermont](#)  
MED 1982 [University of Vermont](#)  
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Haley Woodside Jiron  
Associate Professor of Education  
Appointed in [2002](#)  
[Education Department](#)  
BS 1991 [University of Vermont](#)  
MA 1996 [University of Vermont](#)  
PHD 2002 [SUNY Albany](#)  
[Search Courses for Haley Jiron](#)

---

Helene Wanda Lang  
Associate Professor of Education Emeritus  
Lecturer of Leadership and Developmental Sciences  
Appointed in [1967](#)  
[Education Department](#)  
[Leadership and Developmental Sciences Department](#)  
BS 1953 [Worcester State College](#)  
EDM 1957 [Boston University](#)  
EDD 1970 [Boston University](#)  
[Search Courses for Helene Lang](#)

---

Janice L Lange  
Lecturer of Education  
Appointed in [2006](#)  
[Education Department](#)  
MS 1967 [University of Massachusetts Amherst](#)  
MBA 1985 [University of Vermont](#)  
[Search Courses for Janice Lange](#)

---

Tammy C. Loomis  
Adjunct Lecturer of Education  
Appointed in [1997](#)  
[Education Department](#)  
BS 1983 [Castleton State College](#)  
MED 1992 [Castleton State College](#)  
CAS 1996 [University of Vermont](#)  
[Search Courses for Tammy Loomis](#)

---



Colleen T. MacKinnon  
Lecturer of Education  
Appointed in 2008  
Education Department  
BA 1981 University of Vermont  
MED 1997 University of Vermont  
EDD 2005 University of Vermont  
Search Courses for Colleen MacKinnon

---

Marie Ellen MacLeod  
Research Associate of Education  
Appointed in 2002  
Education Department  
MED University of Vermont  
BS 1999 University of Vermont  
Search Courses for Marie MacLeod

---

Harry J. McEntee  
Assistant Professor of Education Emeritus  
Education Department  
Search Courses for Harry McEntee

---

Cheryl W. Mitchell  
Lecturer of Education  
Appointed in 2002  
Education Department  
BA 1971 Swarthmore College  
MED 1981 University of Vermont  
PHD 1998 Union Institute and University  
Search Courses for Cheryl Mitchell

---

Beth Ann Mohler  
Lecturer of Education  
Appointed in 1980  
Education Department  
BS 1969 Mansfield University  
MED 1973 Pennsylvania State University  
EDD 1990 University of Vermont  
Search Courses for Beth Mohler

---

Patricia Lee Morgan  
Lecturer of Education

Appointed in [1988](#)  
[Education Department](#)  
BA 1974 [Alfred University](#)  
MSED 1982 [University of Vermont](#)  
[Search Courses for Patricia Morgan](#)

---

Patricia H. Mueller  
Lecturer of Education  
Appointed in [1984](#)  
[Education Department](#)  
BS 1978 [University of Vermont](#)  
MED 1981 [University of Vermont](#)  
CAS 1986 [University of Vermont](#)  
EDD 1997 [University of Vermont](#)  
[Search Courses for Patricia Mueller](#)

---

Maureen Doyle Neumann  
Associate Professor of Education  
Appointed in [2001](#)  
[Education Department](#)  
BS 1992 [University of Massachusetts Amherst](#)  
MS 1995 [University of Massachusetts Lowell](#)  
MS 1997 [University of Washington](#)  
PHD 2001 [University of Washington](#)  
[Search Courses for Maureen Neumann](#)

---

Elizabeth Parsons-Reinhardt  
Lecturer of Education  
Appointed in [1987](#)  
[Education Department](#)  
BS 1979 [Skidmore College](#)  
[Search Courses for Elizabeth Parsons-Reinhardt](#)

---

Raymond J. Proulx  
Lecturer of Education  
Appointed in [1997](#)  
[Education Department](#)  
BS 1965 [Johnson State College](#)  
MA 1969 [Saint Michaels College](#)  
EDD 1987 [University of Vermont](#)  
[Search Courses for Raymond Proulx](#)

---

Jennifer Freifeld Prue

Senior Lecturer of Education  
Appointed in [1993](#)  
[Education Department](#)  
BA 1989 [University of Vermont](#)  
MA 1992 [Saint Michaels College](#)  
EDD 2004 [University of Vermont](#)  
[Search Courses for Jennifer Prue](#)

---

Jane Ann Reese-Scott  
Adjunct Lecturer of Education  
Appointed in [2001](#)  
[Education Department](#)  
BS 1975 [Kent State University](#)  
MED 1987 [University of Vermont](#)  
[Search Courses for Jane Reese-Scott](#)

---

Paul Thomas Reinhardt  
Lecturer of Education  
Appointed in [1968](#)  
[Education Department](#)  
BSE 1968 [SUNY Cortland](#)  
MS 1975 [Springfield College](#)  
[Search Courses for Paul Reinhardt](#)

---

Cynthia C. Reyes  
Associate Professor of Education  
Appointed in [2004](#)  
[Education Department](#)  
BA 1983 [Purdue University](#)  
MED 1986 [University of Illinois Urbana-Champaign](#)  
PHD 2001 [University of Illinois Urbana-Champaign](#)  
[Search Courses for Cynthia Reyes](#)

---

Bruce A. Richardson  
Adjunct Associate Professor of Education  
Appointed in [1995](#)  
[Education Department](#)  
BA 1963 [Johnson State College](#)  
MA 1979 [Keene State College](#)  
EDD 1994 [University of Vermont](#)  
[Search Courses for Bruce Richardson](#)

---

Blanche E. Royce  
Lecturer of Education Emerita  
[Education Department](#)  
[Search Courses for Blanche Royce](#)

---

George B. Salembier  
Associate Professor of Education  
Chairperson of Education  
Appointed in [1980](#)  
[Education Department](#)  
BA 1973 [Curry College](#)  
MED 1978 [University of Vermont](#)  
EDD 1992 [University of Vermont](#)  
[Search Courses for George Salembier](#)

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Sherry Ann Schoenberg  
Research Associate of Education  
Appointed in [2001](#)  
[Education Department](#)  
BS 1981 [University of Vermont](#)  
MA 1989 [Johnson State College](#)  
[Search Courses for Sherry Schoenberg](#)

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Mary Ellen Seaver-Reid  
Adjunct Lecturer of Education  
Appointed in [2001](#)  
[Education Department](#)  
BA 1978 [Trinity College](#)  
MED 1982 [University of Vermont](#)  
[Search Courses for Mary Seaver-Reid](#)

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Katharine Green Shepherd  
Associate Professor of Education  
Appointed in [1986](#)  
[Education Department](#)  
BA 1978 [Middlebury College](#)  
MED 1985 [University of Vermont](#)  
CAS 1990 [University of Vermont](#)  
EDD 1996 [University of Vermont](#)  
[Search Courses for Katharine Shepherd](#)

---

James C. Shields  
Adjunct Instructor of Education

Appointed in [2003](#)  
[Education Department](#)  
BA 1987 [University of Notre Dame](#)  
MAT 1996 [Connecticut College](#)  
CAS 1997 [SUNY New Paltz](#)  
[Search Courses for James Shields](#)

---

Shelley F Snyder  
Adjunct Instructor of Education  
Appointed in [1996](#)  
[Education Department](#)  
BA 1978 [University of Vermont](#)  
MED 1987 [Saint Michaels College](#)  
[Search Courses for Shelley Snyder](#)

---

John J. Stawinski  
Lecturer of Education  
Appointed in [1996](#)  
[Education Department](#)  
BS 1991 [Northeastern University](#)  
MA 1998 [San Diego State University](#)  
[Search Courses for John Stawinski](#)

---

Maureen A. Sullivan  
Lecturer I of Education  
Research Assistant Professor of Leadership and Developmental Sciences  
Appointed in [1997](#)  
[Education Department](#)  
[Leadership and Developmental Sciences Department](#)  
BA 1974 [CUNY City College](#)  
MA 1984 [Syracuse University](#)  
PHD 1994 [Syracuse University](#)  
[Search Courses for Maureen Sullivan](#)

---

Jesse Courtney Suter  
Research Assistant Professor of Education  
Appointed in [2005](#)  
[Education Department](#)  
BA 1996 [University of Virginia](#)  
MA 2000 [Arizona State University](#)  
PHD 2006 [University of Vermont](#)  
[Search Courses for Jesse Suter](#)

---

Susan Ann Torncello  
Lecturer of Education  
Research Assistant Professor of Education  
Appointed in [1997](#)  
[Education Department](#)  
BS 1974 [SUNY Plattsburgh](#)  
MED 1993 [University of Vermont](#)  
[Search Courses for Susan Torncello](#)

---

Lynda A. Van Kleeck  
Lecturer I of Education  
Appointed in [1999](#)  
[Education Department](#)  
BS 1974 [University of Vermont](#)  
[Search Courses for Lynda Van Kleeck](#)

---

Julie Ann Welkowitz  
Adjunct Lecturer of Education  
Appointed in [1992](#)  
[Education Department](#)  
BA 1984 [Cornell University](#)  
PHD 1993 [University of Vermont](#)  
[Search Courses for Julie Welkowitz](#)

---

William H. Williams  
Research Associate of Education  
Appointed in [1999](#)  
[Education Department](#)  
BA 1964 [West Virginia Wesleyan College](#)  
MED 1972 [Antioch University New England](#)  
ABD 1985 [Nova Southeastern University](#)  
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## Integrated Professional Studies Department

### Contact Information

*University of Vermont  
Integrated Professional Studies  
Department  
C150 Living/Learning Building  
633 Main St.  
Burlington, VT 05405-0388*

Phone: (802) 656-4050

Fax: (802) 656-2687

Email: [Tori.Lathrop@uvm.edu](mailto:Tori.Lathrop@uvm.edu)

[Web Site](#)

### Affiliations

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## Integrated Professional Studies Department: Academic Offerings

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## Human Development and Family Studies (Bachelor of Science)

### Overview

The Human Development and Family Studies program examines the ways people grow and develop, form relationships and families, and learn to cope with the common and uncommon events of life.

Students learn basic and applied concepts of human development and acquire skills in working with individuals and families of different ages and backgrounds in a variety of settings. Field experience is required of all students.

Human Development and Family Studies is available as a major concentration for students in the Early Childhood, Elementary, Family and Consumer Sciences, and Physical Education licensure programs, and as a minor primarily for students outside of the College of Education and Social Services.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Students in Human Development and Family Studies complete General Education requirements in Behavioral and Social Sciences, Communication Skills, Humanities, Physical and Biological Sciences and Multicultural Electives. They also enroll in a sequence of courses and field experiences designed to provide a comprehensive understanding of individual and family development across the life span. These courses are arranged in two blocks: the introductory core and the advanced core.

- Education
- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

The introductory core in Human Development and Family Studies involves three components. The first, Introduction to Human Development and Family Studies and Academic Service ♦ Learning, provides students an introduction to the topics pursued in the major, how they relate to everyday life settings, how knowledge in the discipline is gained, and the types of skills necessary to both acquire and use this knowledge. The second component in the introductory core is a course covering individual development across the entire life span. Students learn what is typical of individuals at different points in their lives and the various factors, such as gender and social class, that influence development. The third component in the introductory core is a two-semester course dealing with the impact of families and other social institutions such as the school system on individual development. A course on Human Relations and Sexuality completes the introductory core.

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The advanced core in Human Development and Family Studies consists of a series of advanced seminars and a field experience. All majors take seminars in Developmental Theory and Family Ecosystems. Four additional advanced seminars must be selected in consultation with an advisor. The field experience requires 15 to 20 hours per week. Students choose a placement from a variety of public and private local agencies. Field placement sites have included museums, the court system, battered women ♦s shelters, centers for abused and neglected children, city and state government agencies, group homes, rehabilitation centers, local business and industry, childcare settings, hospitals, senior-citizen centers, and other human service agencies.

Faculty and Administration

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## Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#"><u>HDFS 001 - Intro to HDFS and Academic Service ♦ Learning</u></a>	3	
<a href="#"><u>HDFS 005 - Human Development</u></a>	3	
General Education Electives	6	9
Electives	3	3
<a href="#"><u>HDFS 060 - Family Context of Development</u></a>		3
Race & Culture		1
Total	15	16
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#"><u>HDFS 065 - Human Relationships &amp; Sexuality</u></a>	3	
<a href="#"><u>HDFS 161 - Social Context of Development</u></a>	3	
Physical Education Electives	1	1
General Education Electives	6	12
Electives	3	3
Total	16	16

<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
HDFS Adv Seminar	6	3
General Education Electives	6	3
Electives	3	9
<b>Total</b>	<b>15</b>	<b>15</b>
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>HDFS 266 - Seminar: Theory</u>	3	
<u>HDFS 296 - Field Experience</u>	6	
Electives	3	12
<u>HDFS 260 - Family Ecosystem</u>		3
<b>Total</b>	<b>12</b>	<b>15</b>

### Affiliations

- Colleges and Schools: College of Education and Social Services.
- Departments and Programs: Integrated Professional Studies Department.

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Colleges and Schools > College of Education and Social Services > Departments and Programs > Integrated Professional Studies Department > Academic Offerings > Human Development and Family Studies (Minor)

## Human Development and Family Studies (Undergraduate Minor)

### Overview

The minor in Human Development and Family Studies affords students a foundation in the processes of development across the life span, focusing on individual development, family relationships, and major influences on both.

This minor cannot be the sole minor for sociology or psychology majors but is acceptable as a second minor, especially for persons interested in careers involving work with families and youth. For other majors, it can be the sole minor.

### Specific Requirements

Eighteen hours including [HDFS 005](#), [HDFS 060](#), [HDFS 065](#); three 100 or 200 level HDFS courses except [291, 296]. This minor cannot be the sole minor for sociology or psychology majors but is acceptable as a second minor, especially for persons interested in careers involving work with families and youth.

### Affiliations

- Colleges and Schools: [College of Education and Social Services](#).
- Departments and Programs: [Integrated Professional Studies Department](#).

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## Teacher Education: Early Childhood Education (PreK-3) (Bachelor of Science)

### Overview

The Early Childhood Education Program is designed to provide students with the perspectives and skills necessary to work with young children from birth through grade three in inclusionary, developmentally appropriate settings. These include the abilities to:

- a. Facilitate children's development of literacy, quantification, and inquiry skills.
- b. Offer instruction in an integrated day format.
- c. Assess educational progress from a portfolio perspective.
- d. Use educational materials in an open-ended fashion.
- e. And recognize and respect the diversity of family structures within our society.

The program involves a large field-based component and makes significant use of the UVM Campus Children's Center and elementary schools as practicum sites. Graduates of the program who successfully complete all requirements are eligible for licensure from the State of Vermont.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The PreK-3 Professional Preparation Sequence involves three components. The first is a course in Child Development and a course in Family Relations. The child development course introduces students to the concepts that form the practical and theoretical foundation of the program's educational approach. The family relations course provides

- Education
- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

students a foundation in family dynamics and parent-child relationships and serves to emphasize the important links between children's home and school experiences. These two courses are taken prior to formal admission into the PreK-3 program.

The second component is a three-part professional practices sequence. This sequence provides students a first exposure to the rationale, practices, and procedures used in the provision of developmentally appropriate educational experiences for young children. The sequence includes opportunities for observation and hands-on work with children, opportunities to assist teachers in the provision of developmentally appropriate educational experiences and to discuss with teachers and other professionals the issues surrounding the provision of developmentally appropriate educational experiences.

The professional practices sequence is structured as three course blocks, taken sequentially. The first block course deals with techniques for observing and documenting children's development; the second deals with developmentally appropriate educational practices for children through age six (preschool/kindergarten); and the third for children between the ages of six and eight years (grades one through three). A significant portion of this professional practices sequence takes place in one or more preschools and elementary schools.

The third component is a two-semester student teaching sequence across the birth to eight-year age (preschool through grade three) range. This student teaching experience provides the opportunity to develop, implement, and assess (both in a cooperative and an independent fashion) developmentally appropriate educational practices. One experience would be in the Campus Children's Center and the other would be in a child centered, inclusionary grade K-3 setting.

The course of study consists of 128 credits which are divided into eight categories:

- Major concentration in a liberal arts and sciences discipline
- General Education courses
- Professional Preparation Sequence
- Health and Physical Education modules
- Race and Culture course
- Multicultural Electives
- Physical Education Electives
- Electives\*

\* The number of electives depends on the degree of course overlap in the General Education, major concentration, and the multicultural requirements.

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<u>EDSS 011 Race &amp; Culture</u>		1

<u>EDEC 001 Intro to Early Education</u>		4
<u>EDEC 063 Child Development</u>	3	
<u>HDFS 60 Family Context of Development</u>		3
Physical Education Elective	1	
Major Concentration	3	3
General Education Electives	9	6
Total	16	17
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 100 Inquiry and Pedagogy in Early Education</u>	10	
<u>EDEC 189 Early Childhood Practices</u>		12
<u>EDPE 197 Readings &amp; Research (or PEAC 021 Walking for Fitness)</u>	1	
General Education Electives	3	
Major Concentration	3	3
Physical Education Elective		1
Total	17	16
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 296 Field Experience</u>		3
<u>EDEL 156 Teaching Math for Meaning</u>		3
<u>EDEL 176 Language Arts &amp; Literacy Skills</u>		3
<u>EDEL 177 Children's Lit &amp; Literacy</u>		2
<u>EDSP 5 Issues Affecting Persons with Disabilities</u>	3	
Major Concentration	6	3
General Education Electives	6	
Multicultural Elective		3
Total	15	17
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 187 Field Practicum</u>		12
<u>EDEL 187 Planning Adapting and Delivering Reading Instructions</u>		3
Major Concentration	9	
General Education Electives	3	
Multicultural Elective	3	
Total	15	15

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- Colleges and Schools:[College of Education and Social Services](#).
- Departments and Programs:[Integrated Professional Studies Department](#).

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## Teacher Education: Early Childhood Special Education (Birth-Age 5) (Bachelor of Science)

### Overview

The Early Childhood Special Education (ECSP) Program is designed to provide students with the perspectives and skills necessary to work with young children from birth through kindergarten and their families in a range of family-centered, culturally responsive, inclusionary and developmentally appropriate settings. These include the ability to:

- Promote children's learning and development within natural environments and/or inclusive settings;
- Recognize and respect the diversity of family structures, preferences, and participation levels;
- Offer instructional practices that are guided by and sensitive to the family and child, supported by meaningful assessment information, and linked to developmentally and/or individually appropriate curricula;
- Strive to foster collaborative relationships with family members, peers of the same discipline, and individuals across disciplines.

The ECSP program builds upon the early childhood competencies obtained through the PreK Early Childhood program and involves a large field-based component which makes significant use of the wide array of early intervention and early childhood services and supports within the campus community (UVM Campus Children's Center) as well as throughout the local community and region.

### General Requirements

- Education
  - [College of Education and Social Services Degree Requirements](#)
  - [Requirements for All Undergraduate Degree Students](#)
- Graduate College
- Honors College

### Specific Requirements

- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

The Early Childhood Special Education professional preparation sequence involves three components. The first is a course in Child Development and a course in Family Relations. The child development course introduces students to the concepts that form the practical and theoretical foundation of the program's educational approach. The family relations course provides students a foundation in family dynamics and parent-child relationships and serves to emphasize the important links between children's home and school experiences. These two courses are taken prior to formal admission into the ECSP Program.

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The second component is the professional practices sequence. This sequence provides students exposure to the rationale, practices, and procedures used in the provision of developmentally appropriate educational experiences for all young children. The sequence includes opportunities for observation and hands-on work with children, opportunities to assist teachers in the provision of developmentally appropriate educational experiences, opportunities to learn appropriate strategies for the assessment of children with special needs, opportunities to gain an understanding of the legal mandates and best practice guidelines governing the provision of educational services to young children with special needs, and opportunities to learn effective strategies for collaborating with families and other professionals on the issues surrounding the provision of natural learning experiences within developmentally appropriate educational experiences.

The third component is a two-semester student teaching sequence across the birth thru kindergarten age range. This student teaching experience provides the opportunity to develop, implement, and assess (both in a cooperative and an independent fashion) developmentally appropriate educational practices. One experience would be in the UVM Campus Children's Center and the other would either be in a community based, child centered, inclusionary, early childhood setting or through a program providing specialized services to infants and toddlers with special needs and their families in natural environments (e.g., home settings, play groups, etc.).

The course of study consists of 128 credits which are divided into eight categories:

- Major concentration in a liberal arts and sciences discipline
- General Education courses
- Professional Preparation Sequence
- Health and Physical Education modules
- Race and Culture course
- Multicultural electives
- Physical Education electives
- Electives\*

\* The number of electives depends on the degree of course overlap in the General

Education, major concentration, and the multicultural requirements.

## Curriculum

<b>FIRST-YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 063 Child Development</u>	3	
Physical Education Elective	1	
Major Concentration	3	3
General Education Electives	9	6
<u>EDEC 001 Intro to Early Education</u>		4
<u>HDFS 060 Family Context of Development</u>		3
Race & Culture		1
<b>Total</b>	<b>16</b>	<b>17</b>
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>EDEC 100 Inquiry and Pedagogy in Early Education</u>	10	
General Education Electives	3	
<u>EDPE 197 Issues in Health Education (or PEAC 021 Walking for Fitness)</u>	1	
Major Concentration	3	
<u>EDEC 189 Early Childhood Practices</u>		12
<u>EDSP 005 Issues Affecting Persons w/ Disabilities</u>		3
Physical Education Elective		1
<b>Total</b>	<b>17</b>	<b>16</b>
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>ECSP 211 Assmt Intervention Early Childhd Spec Ed</u>	4	
Major Concentration	6	
General Education Electives	6	3
<u>CMSI 094 Develop of Spoken Language</u>		3
<u>ECSP 202 Infants, Toddlers &amp; Preschl w/ Dis</u>		3
<u>ECSP 210 Mtg Curr Needs of Children w/ Dis</u>		4
Multicultural Elective		3
<b>Total</b>	<b>16</b>	<b>16</b>
<b>SENIOR YEAR</b>		

Course	Term	
	Fall	Spring
Multicultural Elective	3	
Major Concentration	12	3
<u>ECSP 187</u> Field Practicum		12
Total	15	15

### Affiliations

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Integrated Professional Studies Department.

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## Teacher Education: Family and Consumer Sciences Education (7-12) (Bachelor of Science)

### Overview

The Family and Consumer Sciences Education Program is an interdisciplinary program that includes a sequence of courses in: family, personal, and consumer issues, food and nutrition, consumer management, human development, and housing. The variety of courses taken for the major expands career possibilities.

Because of the interdisciplinary and comprehensive scope of Family and Consumer Sciences Education, graduates with this major have a variety of career alternatives in business, social agencies, and different types of educational programs for youth and adults. Graduates are licensed to teach in public schools in Family and Consumer Sciences fields such as family studies, child development, consumer education, food and nutrition, housing and interiors, and resource management found in middle, junior, and high school programs.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">HDFS 005 - Human Development</a>	3	
<a href="#">NFS 043 - Fundamentals of Nutrition</a>	3	
Physical Education Elective	1	

Education	General Education Electives	9	6
• Graduate College	<a href="#">EDSS 011 - Race and Culture</a>		1
• Honors College	<a href="#">HDFS 060 - Family Context of Development</a>		3
• School of Business Administration	<a href="#">NFS 053 - Basic Concepts of Food / NFS 054 - Basic Concepts of Food Lab</a>		4
	Major Concentration		3
• The Rubenstein School of Environment and Natural Resources	Total	16	17
	<b>SOPHOMORE</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EDFC 123 - Methods in Nutrition Education</a>	3	
Policies and General Information	<a href="#">EDSP 005 - Issues Affecting Persons with Disabilities</a>	3	
	<a href="#">NFS 143 - Nutrition in the Life Cycle</a>	3	
Faculty and Administration	Physical Education Elective	1	
	CDAE Elective	3	
Catalogue Archives	General Education Electives	3	3
	Elective		3
	<a href="#">CDAE 015 - Design Strategies</a>		3
	HDFS Elective		3
	Major Concentration		3
	Total	16	15
	<b>JUNIOR YEAR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	* Literacy Requirement	3	
	<a href="#">EDFC 220 - Observ &amp; Part in Public Schools</a>	3	
	Housing Requirement	3	
	Major Concentration	6	9
	<a href="#">EDFC 221 - Management of School Youth Org.</a>		2
	General Education Elective		3
	Elective		3
	Total	15	17
	* <a href="#">EDSC 215</a> , <a href="#">EDEL 177</a> (Middle Level section only) or <a href="#">EDLT 236</a>		
	<b>SENIOR YEAR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EDFC 225 - Teaching Practicum</a>	12	
	<a href="#">EDFC 222 - Curr. Dev. in Human Sciences</a>		3
	<a href="#">EDFC 224 - Eval Tech in Human Sciences</a>		3
	Major Concentration		9

Total	12	15
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## Affiliations

- Colleges and Schools:[College of Education and Social Services](#).
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## Teacher Education Requirements

The undergraduate Teacher Education programs include Art, Early Childhood, Early Childhood Special Education, Elementary, Family and Consumer Sciences, Middle Level, Music, Physical Education and Secondary Education. All students are required to meet specific criteria for admittance into the professional portion of the program and for a teaching internship placement as well as for a recommendation for licensure.

### Requirements for Teacher Preparation Programs

**Candidacy:** The professional programs begin with the student enrolling in the College of Education and Social Services as a candidate for licensure. Candidacy status is the stage prior to acceptance into the professional education sequence and, for some programs, may also be available to students enrolled in other colleges at UVM.

**Intercollege Transfer:** Students transferring to the College of Education and Social Services for the Teacher Education programs are required to have a minimum overall grade point average of 2.5 or higher, and it must be possible to earn an overall average of 3.0 before reaching program completion.

**Academic Major:** All students who enroll in the Teacher Education programs are required to complete a 30 hour (minimum) major in the liberal arts and sciences. It is essential for students to complete many liberal arts and sciences requirements during the first two years of their program. Copies of the options and the requirements are available through the [Office of Student Services](#) ☐, 528 Waterman.

Students in Secondary Education complete a major (minimum 30 hours) and a minor (minimum 18 hours) or a broadfield major (minimum 48 hours) from a very specific list of options.

Students in Middle Level Education complete an Individually Designed Interdisciplinary Major Concentration (IDIMC).



## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Students in Early Childhood, Elementary, Family and Consumer Sciences, and Physical Education complete a 30-hour (minimum) major concentration and are strongly encouraged to select a specific discipline but they also have the option of creating an Individually Designed Interdisciplinary Major Concentration (IDIMC).

**Portfolio Development and Professional Licensure:** In accordance with the Standards for Vermont Educators (Vermont State Board of Education, 1991), students seeking a license to teach must develop documentation that they can perform in ways that address State standards. Each candidate must assemble that documentation in a preprofessional portfolio according to program guidelines. While students have candidacy status, they should maintain a file which includes all materials from courses completed so that selected items can be included in the portfolio.

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**Application to Teacher Education:** Candidates interested in pursuing teaching as a career apply to the teacher education program of their choice. Applications are available in each departmental office. Once the candidate's application is complete, the program faculty will review the materials which include a record of academic performance at UVM, recommendations from University and public school faculty, evidence of superior course work, passing scores on PRAXIS I (or fulfillment of this requirement by one of the approved alternate options) as determined for Vermont, and other pertinent sources of information. All students must apply for acceptance into the teacher education segment of their program. Students are required to complete this application and gain acceptance before being eligible to enroll in the professional education courses. This includes: CESS students who are already enrolled as candidates in the teacher education programs; students who transferred to the CESS; and students in other colleges on campus who plan to maintain their primary affiliation with their home college while completing the SDE approved requirements in the CESS.

Students who meet the criteria and are eligible will be accepted. CESS students who do not meet the criteria for admission to Teacher Education will receive a warning of pending disenrollment letter. Students who are warned of pending disenrollment should meet with the program coordinator and determine if program completion is an option.

Students who have not successfully fulfilled the PRAXIS I requirement may appeal for conditional acceptance.

**Application to Student Teaching:** If a candidate's application to a teacher education program is approved, the candidate completes a sequence of professional education courses and applies during the junior year to intern as a student teacher senior year. The candidate submits his/her portfolio and application to student teach to the Program Coordinator. The application lists the current set of criteria that permit a candidate to qualify for student teaching. Included among the criteria are a record of strong academic performance in program and University courses, recommendations from education faculty, and evidence of superior course work and passing scores on PRAXIS I as determined for Vermont. Once admitted to student teaching, the student must successfully complete the interview process and be accepted by an approved public school teacher/administrator before being placed for student teaching. After placement,

the student will carry out an internship under the guidance of an approved cooperating teacher and department supervisor. Student teachers will be placed in Professional Development Schools or Partnership Schools. Although many students remain in the Burlington area, not all can be placed close to campus. Effort is made to accommodate student preference regarding placement site and the semester during which student teaching will occur. All students should be prepared to student teach in either the fall or spring - semester of their senior year. Candidates must meet specific requirements to be recommended for licensure. These requirements are available in the Office of Student Services, 528 Waterman.

Note: Students who are not admitted to student teaching may appeal through the College Student Affairs Committee.

**Application for Licensure:** Students who successfully complete a Teacher Education program are eligible to apply for licensure. The Licensing Newsletter which explains this process is available from the [Student Services Office](#) in 528 Waterman. Applications for licensure are **only** available from the Vermont State Department of Education (802-828-2445).

**Teacher Assessment-PRAXIS:** Undergraduate Students: Students are required to submit passing scores for PRAXIS I (refer to chart) as part of their application to the professional portion of their Teacher Education program. If all three areas have not been passed, the student may appeal for conditional acceptance. Passing scores must be received by the program for all three content areas of PRAXIS I before the student is eligible for a teaching internship placement.

Teaching endorsements as listed on the chart require passing scores on PRAXIS II for Vermont licensure. Science endorsements require passing scores on both General Science as well as the specific area (e.g. Chemistry, Biology, etc.). Endorsement areas which have both multiple choice and a constructed response (essay) options require a passing score in one option for PRAXIS II. Refer to the [Vermont Department of Education Web site](#) for current information.

PBTP and Licensing Masters: Applicants will provide passing scores on PRAXIS I & PRAXIS II (if required for endorsement) before being admitted to the program. Students who receive conditional acceptance must provide passing scores for PRAXIS I & PRAXIS II (if required for endorsement) before being eligible for a teaching internship placement.

### PRAXIS I Options

1. Candidates for initial licensure may meet **either** the three individual PRAXIS I test scores (i.e., Reading - 177, Writing - 174, and Mathematics - 175) **or** a composite score of 526 (i.e., the total of the three test scores).
2. The following assessments have been approved as alternatives to PRAXIS I. Students must meet both the total score as well as the minimum scores as equivalent to earning passing scores on PRAXIS I.



	Total Score	Verbal/English	Math/Quantitative
<b>Graduate Record Exam (GRE)</b>	1100	500	500
<b>Scholastic Aptitude Test (SAT)</b>	1100	500	500
<b>ACT</b>		22	22

## PRAXIS II

<b>Art</b>	Essay: 148
<b>Biology</b>	Multiple Choice: 161/Essay: 150
<b>Chemistry</b>	Multiple Choice: 150/Essay: 150
<b>Earth Science</b>	Multiple Choice: 158/Essay may be added
<b>Elementary</b>	Multiple Choice: 148/Essay may be added
<b>English</b>	Multiple Choice: 172/Essay: 160
<b>General Science</b>	Multiple Choice: 157/Essay may be added
<b>Mathematics</b>	Multiple Choice: 141/Proofs, Models, & Problems, Part I: 154
<b>Music</b>	Multiple Choice: 153/Essay: 150
<b>Physical Education</b>	Multiple Choice: 147/Essay: 154
<b>Social Studies</b>	Multiple Choice: 162/Essay: 165

## 2002-2003 Teacher Examination Pass Rate:

### Praxis I Basic Skills

<b>Reading</b>	98%
<b>Writing</b>	99%
<b>Mathematics</b>	98%

- [Brochure detailing the Testing Requirements for Educator Licensing](#)

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## Courses offered by the Integrated Professional Studies Department

### Courses in Family&Consumer Sciences

#### EDFC 055 - Special Topics I

Credits: 2-6.

#### EDFC 123 - Methods In Nutrition Education

Planning and presenting of appropriate methods, media, and materials for audiences in community, school, and institutional settings emphasizing interpersonal communication and group process skills.

Credits: 3.

#### EDFC 197 - Readings and Research

Credits: 1-4.

#### EDFC 200 - Contemporary Issues

Credits: 1-6.

#### EDFC 220 - Fam&Consumer Sci/Contemp Schl

Required for licensure. Exploration of education options in a variety of family and Consumer Sciences related areas and in different types of schools and programs. (Not offered for graduate credit).

Credits: 3.

#### EDFC 221 - Mgmt School Youth Organization

The role of youth organization advisor, particularly FCCLA. Emphasis on service learning and use of advisory councils. Includes observation and participation in school related activities. (Not offered for graduate credit).

Education

Credits: 2.

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

### **EDFC 222 - Curriculum Dev Human Sciences**

Basic principles of curriculum development applied to human sciences education.

Unique characteristics and contributions of human science education as related to educational, economic, and sociological trends. Spring in odd number years.

Credits: 3.

### **EDFC 224 - Evaluation In Human Sciences**

Test, questionnaire, interview schedule construction, and other non-testing means of evaluation. Usability, objectivity, validity, reliability, and discrimination of evaluation instruments. Selected sociometric techniques and evaluation in affective domain. Spring.

Credits: 3.

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Policies and General Information

### **EDFC 225 - Teaching Pract: Human Sciences**

Teaching in middle or secondary schools under guidance of cooperating teachers and college supervisor. Credits variable up to 15 hours per semester. (Not offered for graduate credit).

Credits: 1-15.

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### **EDFC 295 - Lab Experience in Education**

Credits: 1-15.

### **EDFC 296 - Special Topics**

Credits: 1-15.

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## **Courses in Counseling**

### **EDCO 220 - Developmental Persp in Counsel**

Survey of major and emerging theories of human development and application of theoretical concepts to self and others from a counseling perspective.

Prerequisite: Graduate standing; others by Instructor permission.

Credits: 3.

### **EDCO 291 - Special Topics in Counseling**

Special issues in counseling, administration and planning, social work or higher education not appropriate to content of existing courses. Courses reflect the social services orientation of the Department of Integrated Professional Studies.

Credits: 1-3.

### **EDCO 310 - Counseling Strats for Teachers**

Counseling strategies appropriate for use in the classroom

Credits: 3.

### **EDCO 340 - Development Guidance in Schls**

An introduction to the role of the school counselor including developmental guidance program planning and implementation, consultation, crisis intervention,

parent education and ethical issues. Prerequisite: Counseling majors or Instructor permission.

Credits: 3.

#### **EDCO 344 - Counseling Children&Adolescent**

Students learn theories and will practice counseling children and adolescents: assessment intervention planning, and play therapy, client-centered, behavioral, cognitive, Adlerian, brief and narrative approaches. Prerequisites: EDCO 374-Counseling Theory and Practice, EDCO 375-Laboratory Experience in Counseling, Counseling Majors or permission.

Credits: 3.

#### **EDCO 350 - Prof Issues in Counseling**

A seminar in which professional, ethical, and legal issues facing counselors in schools and mental health settings are addressed through reading, research, presentation, and discussion. Prerequisite: Graduate standing or Instructor permission.

Credits: 3.

#### **EDCO 351 - Using Tests in Counseling**

Exploration of tests and testing process used in counseling and school settings. Includes necessary statistics. Experience in taking, administering, interpreting various tests; study projects for application to any setting. Prerequisites: Graduate standing or permission.

Credits: 3.

#### **EDCO 361 - Practice of Mental Hlth CnsIng**

Introduction to issues, needs, models and sociopolitical factors present in community and private-practice mental health counseling, with an emphasis on prevention and wellness. Prerequisite: Graduate standing or Instructor permission.

Credits: 3.

#### **EDCO 363 - Counseling Practicum**

experience. Prerequisites: Counseling Majors or Permission, Introductory supervised experience in counseling in a field setting. Includes 100 hours working as a counselor with a minimum of 40 hours of direct counseling EDCO 220, EDCO 350, EDCO 374, EDCO 375 (School and Mental Health tracks) EDCO 361 (Mental Health track)

Credits: 1.

#### **EDCO 364 - Internship School Counseling**

Supervised counseling experience in a school counseling setting with direct client work. Prerequisite: Counseling majors or Instructor permission.

Credits: 1-8.

#### **EDCO 374 - Counseling Theory & Practice**

Theoretical and practical approach to understanding the counseling process. Refinement of personal philosophy, theory of counseling, and implementation in

practice. Prerequisite: Graduate standing or Instructor permission.

Credits: 3.

**EDCO 375 - Lab Experience in Counseling**

Students learn and practice basic counseling skills and techniques. Videotaped practice sessions are supervised by course instructor. Prerequisite: EDCO 374. Counseling majors only.

Credits: 3.

**EDCO 376 - Chem Dependency: Etiology & Trtmt**

Graduate standing or permission.

Credits: 3.

**EDCO 377 - Diversity Issues in Counseling**

Students examine personal, cultural, political, and social factors affecting a diverse range of people with focus on developing appropriate and effective counseling skills. Prerequisite: Instructor permission.

Credits: 3.

**EDCO 378 - Diagnose & Treat Plan/Child & Adol**

Etiology and diagnosis of mental disorders in children and adolescents according to DSM. Includes intake, evaluation, treatment planning, and clinical documentation skills. Prerequisite: Counseling majors or Instructor permission.

Credits: 3.

**EDCO 379 - Diagnose & Treat Plan w/Adults**

Prerequisite: Counseling majors or Instructor permission. Etiology and diagnosis of mental disorders in adults according to DMS. Includes intake, evaluation, treatment planning, and clinical documentation skills.

Credits: 3.

**EDCO 380 - Prof Problems in Counseling**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.

**EDCO 381 - Counsel/Career & Lifestyle Dev**

An exploration of the theories, assessment instruments, counseling techniques, and issues most relevant in counseling for career and lifestyle development. Prerequisite: EDCO 374, EDCO 375; Graduate standing or Instructor permission.

Credits: 3.

**EDCO 384 - Intern: Mental Hlth Counseling**

Supervised counseling experience in a mental health counseling setting with direct client work. Prerequisite: Counseling majors or Instructor permission.

Credits: 1-12.

**EDCO 386 - Org Dev for CnsIng & Services**

Prerequisite: Instructor permission.

Credits: 3.

**EDCO 387 - Therapeutic Psychopharmacology**

Introduction to neuroanatomy, neurophysiology, and pharmacology as they pertain to mental health counseling. Course also covers commonly prescribed medications, ethical issues and the referral process. Prerequisite: EDCO 360 or program permission.

Credits: 3.

**EDCO 388 - Family Counseling: Systems**

Theory and process of counseling with families, including family theory and current family therapy orientations and intervention skills. Includes practice of counseling interventions. Prerequisites: 220, 374, permission.

Credits: 3.

**EDCO 389 - Family Counseling: Interventions**

Supervised practice in family counseling. Prerequisites: 388, permission.

Credits: 3.

**EDCO 390 - Advanced Counseling Seminar**

Analysis and practice of advanced counseling skills with focus on new developments. Emphasis on integration of theory and technique into a consistent counseling model. Prerequisites: EDCO 374, EDCO 375, and Instructor permission.

Credits: 3.

**EDCO 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-18.

**EDCO 392 - Group Dynamics: Theory & Exp**

Encounter group experiences for prospective counselors providing increased awareness of self and models relating to others. Theory, practice of group dynamics. Prerequisites: Graduate standing and permission.

Credits: 3.

**EDCO 393 - Adv Group Counseling**

Group leadership skills are developed, practiced, and refined through in-class experiences that focus on feedback exchange, group techniques, ethical issues, and group theory. Prerequisites: 220, 374, 375, 392 and permission.

Credits: 3.

**EDCO 394 - Special Topics in Counseling**

Special issues in counseling, administration and planning, social work, higher education not appropriate to content of existing courses. Prerequisite: Instructor permission. Variable credit.

Credits: 1-3.



### **EDCO 397 - Independent Study**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

### **EDCO 399 - Program Completion Seminar**

Students are aided in preparation of a scholarly paper to be presented and discussed in seminar and submitted for publication review. Prerequisite: Counseling majors in final or next to final semester; Instructor permission.

Credits: 1.

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## **Courses in Early Childhood Pre K-3**

### **EDEC 001 - Intro to Early Education**

Introduction to a social-constructivist approach to early childhood curriculum development and strategies for observing and documenting young children's development and learning. Offered Spring only.

Credits: 4.

### **EDEC 055 - Special Topics I**

Credits: 2-6.

### **EDEC 063 - Child Development**

The biological, psychological, and social growth and development of children and their relationships with family, peers, and institutions.

Credits: 3.

### **EDEC 100 - Inquiry & Pedagog in Early Edu**

Strategies for the observation, documentation, and development of curriculum in early education from a social-constructivist perspective through seminar participation and an internship experience in an early childhood setting. Offered Fall only. Pre/co-requisite: EDEC 001.

Credits: 10.

### **EDEC 187 - Field Practicum**

permission.

Credits: 12.

### **EDEC 189 - Early Childhood Practices**

Supervised planning and conducting the Early Childhood Laboratory Center. Integrated Readings and Research, Early Childhood Seminar, and Curriculum Workshop. Prerequisite: Permission. Variable credit.

Credits: 0-15.

### **EDEC 195 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Enrollment may be more than once, accumulation up to 12 hours.

Prerequisite: Varies with course.

Credits: 1-6.

**EDEC 197 - Readings & Research**

Credits: 1-4.

**EDEC 200 - Contemporary Issues**

Credits: 1-6.

**EDEC 291 - Special Problems**

Reading, discussion, and special field and/or laboratory investigations.

Prerequisite: Department permission. Students may enroll more than once up to 12 hours.

Credits: 1-6.

**EDEC 295 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Enrollment may be more than once. Prerequisite: Department permission.

Credits: 1-6.

**EDEC 296 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and community representative, credit arranged up to 15 hours. Prerequisite: Department permission.

Credits: 1-15.

**EDEC 397 - Problems in Education**

Credits: 1-6.

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## Courses in Early Childhood Special Educ

**ECSP 187 - Student Teaching Practicum**

research activity, and weekly seminar. Full semester student teaching internship in a setting or combination of settings that includes infants, toddlers, and/or preschoolers with disabilities. Integrated readings, Prerequisites: ECSP 210, ECSP 211.

Credits: 12.

**ECSP 200 - Contemporary Issues**

Credits: 1-6.

**ECSP 202 - Inft,Tdlr,Preschl w/ Disabil**

instructional practices, technology and therapy. Characteristics and educational interventions with young children, including typical development and disabilities, addressing needs of young children through curriculum and Pre/co-requisites: EDSP

Credits: 3.

**ECSP 210 - Meet Curr Needs Chil w/ Disabl**

Curricular areas essential to the development of young children with disabilities, development and adaptation of curricula integrated with assessment in early childhood including children with mild, moderate and severe disabilities. Pre/co-requisites: ECSP 202

Credits: 4.

**ECSP 211 - Assmt Intvntn Erly Chld Sp Ed**

Screening and assessment essential to identification of and planning for young children with disabilities. Planning for, selection of tools and procedures, and interpreting results from screening and assessment, including young children with mild, moderate and severe disabilities. Pre/co-requisites: ECSP 202

Credits: 4.

**ECSP 295 - Lab Experience in Education**

Undergraduate only.

Credits: 1-6.

**ECSP 310 - Curriculum & Tech Special Ed**

See EDSP 310,311.

Credits: 3.

**ECSP 311 - Curriculum & Tech Special Ed**

See EDSP 310,311.

Credits: 3.

**ECSP 319 - Intern Specialized Personnel**

Undergraduate only.

Credits: 1-6.

**ECSP 380 - Professional Problem:Education**

Undergraduate only.

Credits: 3.

**ECSP 382 - Teaching Internship**

Undergraduate only.

Credits: 3-8.

**ECSP 386 - Intern:Mgmt Lrng Env for Hdcpd**

See EDSP 386.

Credits: 1-6.

**ECSP 391 - Master's Thesis Research**

Credits: 1-12.

**ECSP 397 - Problems in Education**

Credits: 1-6.

## Courses in Higher Education

### **EDHI 055 - Special Topics**

Credits: 2-6.

### **EDHI 200 - Contemporary Issues**

Designed so that its content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Twelve hours in Education and related areas.

Credits: 1-6.

### **EDHI 202 - Human Rel in Univ Res Halls**

residential environment. Prerequisite: Residence hall Emphasis on human relations, group dynamics, advising models, student development theory, organizational development, and contemporary student issues in a staff. (Not offered for graduate credit.)

Credits: 1.

### **EDHI 213 - Ldr:Theories,Styles&Realities**

Introductory course in leadership development designed for student leaders. Includes study of planning, time management, organizational theory, communication skills, group process, team building. (Not offered for graduate credit.)

Credits: 2.

### **EDHI 214 - Adv Seminar in Leadership**

Focuses on student leaders' experiences and how those experiences relate to activities beyond the University setting.

Credits: 2.

### **EDHI 295 - Lab Experience in Education**

Supervised field work designed to give students experience in specialized areas for their professional development. Prerequisite: Permission of the Coordinator of Professional Laboratory Experiences.

Credits: 1-3.

### **EDHI 297 - Special Topics**

Learning modules may vary each semester as the need to address topics arises. Learning modules are five week classes.

Credits: 1.

### **EDHI 319 - Internship**

Students will undertake an approved internship in an institution which reflects the particular area of interest and needs of the student. Prerequisite: Instructor permission.

Credits: 1-6.

### **EDHI 332 - Adult Development & Education**

Critical examination of research on adult learners in higher education,

development theory, and reentry issues facing older students. Analysis and application of proposals for new adult-oriented educational programs.

Credits: 3.

**EDHI 360 - Higher Education in America**

Critical, contemporary overview of the American university. Implications of conflicting value philosophies for theory, practice of higher education.

Credits: 3.

**EDHI 361 - The (Un)Changing Academy**

This course examines the historical trends that have shaped

Credits: 3.

**EDHI 362 - The American College Student**

Examination of the diversity of college students today, and the developmental issues arising during the college experience.

Credits: 3.

**EDHI 363 - Controversies of the Academy**

Critical and timely look at challenges confronting campus leaders. Implications for administrative practice shape seminar conversations of readings and case studies.

Credits: 3.

**EDHI 375 - Cultural Pluralism Higher Ed**

practices related to racism and diversity for implementation in higher education.

Prerequisite: Graduate standing.

Credits: 3.

**EDHI 380 - Professional Problems in Educ**

Designed to cover selected educational problems in depth. The major emphasis will be on intensive and critical analysis of the literature and practice in a given area.

Credits: 3.

**EDHI 383 - Higher Ed Admin & Organization**

Introduction to concepts of administration and organization as applied to contemporary higher education setting. Characteristics of organizations, dynamic elements of administration, and theories and processes of change.

Credits: 3.

**EDHI 385 - Student Affairs Profession**

Overview of the work of the student affairs profession, including philosophical base, historical development, current practices, and future trends. Prerequisite: Enrollment open only to Higher Education and Student Affairs students.

Credits: 3.

**EDHI 387 - Seminar in Higher Education**

Designed for graduate students concentrating in programs in Higher Education. Analysis and discussion of current issues and problems in higher education.

Credits: 1-3.

**EDHI 391 - Master's Thesis Research**

Thesis topic must be approved by a faculty committee.

Credits: 1-6.

**EDHI 395 - Lab Experience in Education**

Practica internships, offered in various University departments and offices, enable students to integrate conceptual knowledge with professional practices.

Prerequisite: Graduate standing in HESA.

Credits: 2.

**EDHI 396 - Capstone:Eth,Val&Mean/High Ed**

An applied student affairs seminar featuring ethical problem-solving, appreciation of religious pluralism, and approaches to facilitating the search for moral and

Credits: 3.

**EDHI 397 - Problems in Education**

Individual work on a research problem selected by the student in consultation with a staff member. Prerequisite: Twelve hours in education and related areas; endorsement by a sponsoring faculty member.

Credits: 1-6.

**EDHI 491 - Doctoral Dissertation Research**

Credits: 1-12.

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## Courses in Human Development & Fam Studies

**HDFS 001 - Int Hum Dev&Fam Std&Acad Serv**

Seminar designed to introduce concepts and practices of Human Development and Family Studies through integrating academic service-learning in developmental settings with critical thinking about development. Prerequisite: Majors only.

Credits: 3.

**HDFS 005 - Human Development**

A comprehensive survey of life span individual and family development within social and historical context.

Credits: 3.

**HDFS 020 - Aging:Change & Adaptation**

Individual and social meanings of aging and old age; physical, physiological, psychological, and sociological changes accompanying aging; individual, family, community, and societal adaptations to aging. Cross-listed with NURS 020 and SOC 020.

Credits: 3.

**HDFS 055 - Special Topics I**

Credits: 1-6.

**HDFS 060 - Family Context of Development**

Developmental ecological approach to analysis of the family as a system in which individuals develop.

Credits: 3.

**HDFS 065 - Human Relationships&Sexuality**

Sexual responsibility and the biological, social, psychological growth, and development of human beings in terms of sex role identity.

Credits: 3.

**HDFS 152 - Biology of Aging**

Cross-listed with: NURS 100.

Credits: 3.

**HDFS 161 - Social Context of Development**

Developmental ecological approach to analysis of social institutions as influences on human development. Focus on education, community, health care, and social services. Pre/co-requisite: HDFS 060.

Credits: 3.

**HDFS 167 - Sexual Identities**

Exploration of diverse lesbian, gay, bisexual, and/or transgender identities, families, and communities, and their current personal, social, and cultural meanings and contexts. Prerequisites: Three hours in Human Development or related field; sophomore standing.

Credits: 3.

**HDFS 195 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Enrollment may be more than once, accumulation up to 12 hours.

Prerequisite: Varies with course.

Credits: 1-6.

**HDFS 197 - Readings & Research**

Credits: 1-4.

**HDFS 200 - Contemporary Issues**

Undergraduates only.

Credits: 1-6.

**HDFS 260 - Family Ecosystem**

Family viewed in and as an environment for human development. The family ecological approach applied to practical family concerns. Prerequisites: Senior standing or instructor's permission.

Credits: 3.

**HDFS 263 - Advanced Child Development**

Survey of professional literature in child development with special emphasis on influence of early life experiences throughout the life cycle.

Credits: 3.

**HDFS 264 - Contemporary Issues Parenting**

Contemporary cultural factors that influence adult lifestyles and their relationship to successful parenting. Prerequisites: Nine hours in Human Development or instructor's permission. May be taken more than once.

Credits: 3.

**HDFS 265 - Teaching Human Development**

Credits: 3.

**HDFS 266 - Seminar in Human Development**

Intensive study of issues in human development and their application in a wide variety of professional areas. May be taken more than once up to a maximum of 12 hours. Prerequisite: Junior standing; nine hours in Human Development & Family Studies or Instructor permission.

Credits: 3.

**HDFS 267 - Adv Seminar Sexual Identities**

Intensive study of lesbian, gay, bisexual, and/or transgender identities, families, and communities in diverse individual, social, political, and cultural contexts. Prerequisite: Junior standing; nine hours in Human Development & Family Studies or Instructor permission.

Credits: 3.

**HDFS 268 - Sem In Close Relationships**

Causal conditions influencing formation, maintenance, and dissolution of intimate adult relationships. Draws on theory and students' personal experiences to explicate the nature of close relationships in contemporary American society. Prerequisite: Junior standing; nine hours in Human Development & Family Studies or Instructor permission. Offered in alternate years.

Credits: 3.

**HDFS 291 - Special Problems**

Reading, discussion, and special field and/or laboratory investigations. Prerequisite: Department permission. Students may enroll more than once up to twelve hours.

Credits: 1-6.

**HDFS 295 - Special Topics**

Lectures, laboratories, readings, or projects relating to contemporary areas of study. Enrollment may be more than once, accumulation up to 12 hours. Prerequisite: Departmental permission.

Credits: 1-6.

**HDFS 296 - Field Experience**

Professionally-oriented field experience under joint supervision by faculty and



community representative, credit arranged up to 15 hours. Prerequisite:  
Department permission.

Credits: 1-15.

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## Social Work Department

### Contact Information

*University of Vermont  
 Social Work Department  
 85 So. Prospect Street  
 443 Waterman  
 University of Vermont  
 Burlington, VT 05405*

Phone: (802) 656-8800  
 Fax: (802) 656-8565

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Education and Social Services](#).

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## Social Work (Bachelor of Science)

### Overview

The principal educational objective of the Social Work Program is to prepare students for beginning social work practice with individuals, families, small groups, organizations, and communities.

The program provides education for social work practice based on a liberal arts education in the social sciences and humanities. The program is fully accredited by the Council on Social Work Education. Throughout the program of study, students gain the values, knowledge, and skills necessary to provide social services and to effect social change in institutions and communities.

### General Requirements

- [College of Education and Social Services Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Bachelor of Science degree in Social Work requires a minimum of 122 approved credit hours, 27 credits of which are general education components from the six approved academic areas (Arts and Letters, Mathematics, Science, Social Sciences, Humanities, Health and Physical Education), including two credits for physical education activities and one credit for Race and Culture Studies. Additionally, students are required to take at least one course that focuses substantially on issues concerned with Africa, Asia, Latin America, the Middle East, or countries known as the Third World.

The student in consultation with his/her advisor, selects elective courses which will provide the opportunity to develop individual interests. Additional courses in

- Education anthropology, education, foreign language, history, philosophy, political science, psychology, sociology, statistics, special education, and women's studies are recommended. Students who intend to pursue a Master of Social Work (MSW) degree are strongly advised to take a course in statistics.
- Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources
- A committee of Social Work faculty may review students' progress each semester throughout the four years. Students may be asked to participate in that process if the faculty deems necessary.
- Students must complete the required liberal arts courses with a minimum grade of C-; completion of the initial Social Work courses ([SWSS 2](#), 3, 5, 47, 48, 167) with a minimum grade of C; completion of the upper level Social Work courses ([SWSS 164](#), 165, 166, 168, 169, 171, 172, 173, 174) with a minimum grade of B and an overall GPA in all courses of 2.0.

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## Curriculum

<b>FIRST-YEAR</b>		
Course	Credits	
	Fall	Spring
<a href="#">SOC 001 - Introduction to Sociology</a>	3	
<a href="#">SWSS 002 - Foundations of Social Work</a>	3	
Third World Elective	3	
Humanities Elective	3	
General Electives	3	6
<a href="#">EDSS 011 - Race and Culture</a>		1
<a href="#">POLS 021 - American Political System</a>		3
<a href="#">PSYC 001 - General Psychology</a>		3
<a href="#">SWSS 003 - Human Needs &amp; Social Services</a>		3
Total	15	16
<b>SOPHOMORE</b>		
Course	Credits	
	Fall	Spring
<a href="#">EC 011 - Principles of Macroeconomics</a>	3	
<a href="#">ENG 050 - Expository Writing</a>	3	
<a href="#">PSYC 152 - Abnormal Psychology</a>	3	
<a href="#">SWSS 047 - Human Beh in the Soc Envr I</a>	3	
Physical Education Elective	1	
General Electives	3	6
<a href="#">BIOL 003 - Human Biology</a> or <a href="#">SWSS 005 - Biosociopolitical Issues SW</a>		3
<a href="#">SWSS 048 - Human Beh in the Soc Envr II</a>		3
<a href="#">SWSS 060 - Racism &amp; Contemporary Issues</a>		3

Total	16	15
<b>JUNIOR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>SWSS 164 - Intro Social Work Research</u>	3	
<u>SWSS 165 - Iss &amp; Pol in Social Welfare I</u>	3	
General Electives	9	12
<u>SWSS 166 - Iss &amp; Pol in Social Welfare II</u>		3
Physical Education Elective		1
Total	15	16
<b>SENIOR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>SWSS 168 - Social Work Practice I</u>	3	
<u>SWSS 171 - Field Experience Seminar I</u>	3	
<u>SWSS 173 - Field Experience I</u>	6	
General Electives	3	3
<u>SWSS 169 - Social Work Practice II</u>		3
<u>SWSS 172 - Field Experience Seminar II</u>		3
<u>SWSS 174 - Field Experience II</u>		6
Total	15	15
TOTAL CREDITS: 123		

**Notes:**

1. In the senior year, students spend approx. 15 hours/wk. over two semesters (450 total hours) as interns in a public or private social service agency. Within the same year, students must take SWSS 168, SWSS 169, SWSS 171, SWSS 172, SWSS 173 and SWSS 174.
2. Typically students apply for SWSS 173 Field Experience in the spring of Junior year. Application for the Field requires consultation with the student's advisor to determine that all introductory and intermediate professional and required courses have been successfully completed. The process includes a written statement that describes the student's interests and qualifications. The advisor and student also review professional readiness issues, including strengths, conduct, maturity, and areas to strengthen. When there are concerns about a student's field readiness, these concerns will be reviewed by the Undergraduate Program Committee, and recommendations will be made.

**Affiliations**

- Colleges and Schools:College of Education and Social Services.
- Departments and Programs:Social Work Department.

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## Courses in Social Work

### SWSS 002 - Foundations of Social Work

An introduction to the profession of social work, its functions, values, knowledge, and the problems it addresses. Includes a service-learning component.

Credits: 3.

### SWSS 003 - Human Needs & Social Services

agency, relate observations to theory about clients, agency structure, programs, and operations, and assess their commitment to the profession of social work.

Prerequisite: SWSS 002 or Instructor permission.

Credits: 3.

### SWSS 005 - Biosociopolitical Issues SW

Instructor permission.

Credits: 3.

### SWSS 007 - Quantitative Meth SW Research

Introduction to statistics and social work research methods. This course introduces students to quantitative methodology in research and practice.

Credits: 3.

### SWSS 047 - Human Beh in the Soc Envr I

Introduction to life-span development from birth to death. There is a primary focus on the individual. Prerequisites:

Credits: 3.

### SWSS 048 - Human Beh in the Soc Envr II

A systems approach to understanding various levels of social organization; for example, families, groups, organizations, and communities. Prerequisite: 47.

Credits: 3.



Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**SWSS 055 - Special Topics**

Designed so that its content and structure may accommodate special issues not offered within the boundaries of an existing course. Open to First-Year and Sophomore students.

Credits: 1-6.

**SWSS 060 - Racism & Contemporary Issues**

Study of perception, conceptualization, and comprehension of racism. Strategies, techniques, and procedures to identify and decrease many facets of racism.

Credits: 3.

**SWSS 150 - Laboratory Experience**

Supervised practicum for advanced level students. Pre/co- requisites: Social Work major, permission, pre-arrangement.

Credits: 1-12.

**SWSS 160 - Soc Wrk Pr:Chld,Fam&Youth Svc**

collaboration, ethical decision making, cultural competence. Explores perspectives relevant to child protection and family support. Emphasizes skills in writing reports, giving oral testimony, making referrals, interdisciplinary Pre/co-requisite: Junior status in Social Work; SWSS 002, SWSS 003, SWSS 047, SWSS 048; or permission of Instructor.

Credits: 3.

**SWSS 164 - Intro Social Work Research**

Introduction to models and methods of social research from a social work perspective. Prerequisite: SWSS 002, SWSS 003, SWSS 047, SWSS 048, or Instructor permission.

Credits: 3.

**SWSS 165 - Iss & Pol in Social Welfare I**

An introduction to economic, political, historical, and social forces that influence the development and implementation of social welfare policy. Prerequisite: SWSS 002, SWSS 003, SWSS 047, SWSS 048, or Instructor permission.

Credits: 3.

**SWSS 166 - Iss & Pol in Social Welfare II**

or Instructor permission. In-depth examination of social welfare policy and accompanying social services in the U.S.; major policy analysis models presented and used. Prerequisite: SWSS 165

Credits: 3.

**SWSS 168 - Social Work Practice I**

Social work theory and practice methods employed by social workers in providing services to individuals, families, and small groups. Prerequisite: Social Work major, Senior standing or Instructor permission.

Credits: 3.

**SWSS 169 - Social Work Practice II**

Social work theory and practice methods employed by social workers in providing services to groups, organizations, and communities. Prerequisites: Social Work major; SWSS 168; Senior standing; or Instructor permission.

Credits: 3.

**SWSS 171 - Field Experience Seminar I**

Weekly integrative seminar; discussion of practice within field agency.

Prerequisite: Concurrent enrollment in SWSS 173.

Credits: 3.

**SWSS 172 - Field Experience Seminar II**

Weekly integrative seminar; discussion of practice within field agency.

Prerequisite: Concurrent enrollment in SWSS 174.

Credits: 3.

**SWSS 173 - Field Experience I**

Supervised field-based learning of 15-20 hours per week. Students are placed in human service agencies and organizations and learn the application of social work, theory, ethics and skills. Pre/co-requisite: Social Work major; Senior standing; Instructor permission; taken concurrently with SWSS 168 and SWSS 171.

Credits: 6.

**SWSS 174 - Field Experience II**

Supervised field-based learning of 15-20 hours per week. Students are placed in human service agencies and organizations and learn the application of social work, theory, ethics and skills. Pre/co-requisite: Social Work major; Senior standing; Instructor permission; SWSS 168 and SWSS 171; taken concurrently with SWSS 169 and SWSS 172.

Credits: 6.

**SWSS 197 - Readings & Research**

Prerequisite: Social Work major. Pre-arrangement only. Variable credit.

Credits: 1-4.

**SWSS 198 - Readings & Research**

Credits: 1-4.

**SWSS 199 - Laboratory Experience**

Supervised practicum for advanced level students. Pre/co-requisite: Social Work major; Instructor permission; pre-arrangement.

Credits: 1-12.

**SWSS 200 - Contemporary Issues**

Content and structure may accommodate special issues not especially appropriate within the boundaries of an existing course. Prerequisite: Instructor Permission.

Credits: 1-6.

**SWSS 212 - Social Work Practice I**

permission.

Credits: 3.

**SWSS 213 - Social Work Practice II**

permission.

Credits: 3.

**SWSS 216 - Th Found of Hum Beh&Soc Envr I**

This course introduces students to the biological, psychological, cultural/social, and economic forces that influence human behavior and their implication for social work practice. Prerequisite: MSW standing; or Instructor permission.

Credits: 3.

**SWSS 217 - Th Found Hum Beh&Soc Envr II**

or Instructor permission.

Credits: 3.

**SWSS 220 - Soc Welfare Pol & Services I**

permission.

Credits: 3.

**SWSS 221 - Soc Welfare Pol & Services II**

Focus is on the analysis of the economic, political, and social forces that influence the development and implementation of social welfare policy. Prerequisite: SWSS 220; or Instructor permission.

Credits: 3.

**SWSS 224 - Child Abuse & Neglect**

An MSW foundation elective that considers child abuse and neglect from historical, cultural, sociopolitical and psychological perspectives and examines professional social work responses to them. Prerequisite: Matriculation in the foundation year of Graduate study in Social Work; or Instructor permission.

Credits: 3.

**SWSS 225 - Transf Ourselves&Comm:SW Persp**

An MSW foundation elective that examines systems of oppression and social work strategies to decrease biased practices and create more equitable communities and institutions. Prerequisite: Matriculation in the foundation year of graduate study in Social Work; or Instructor permission.

Credits: 3.

**SWSS 226 - Assessment Theory Social Work**

permission.

Credits: 3.

**SWSS 227 - Found of Social Work Research**

An introduction to qualitative and quantitative methods of applied social research including program evaluation and the evaluation of practice and application to social work is taught. Prerequisite: MSW standing or Instructor permission.

Credits: 3.

**SWSS 228 - Aging: A Strength & Human Rights Perspective**

practice from the perspectives of strengths, social justice, human rights and critical social constructionism.

Credits: 3.

**SWSS 290 - Foundation Year Field Practicum**

Supervised field-based learning of 15-20 hours per week. Students are placed in human service agencies and organizations and learn the purposeful application of generalist social work theory, ethics, and skills. Field Education.

Credits: 3-4.

**SWSS 296 - Social Work in Global Context**

major; or MSW standing; permission of the Instructor.

Credits: 3.

**SWSS 301 - Social Work in Health**

Based on examinations of current trends with clients of multiple ages, needs, and cultural perspectives, this course examines social work roles in delivering health services. Prerequisites: Completion of foundation coursework; MSW advanced standing; or Instructor permission.

Credits: 3.

**SWSS 302 - Social Work in Mental Health**

Advanced knowledge and skills in working with children with severe emotional disturbances and adults with persistent mental illness. Community-based services are emphasized. Prerequisites: Completion of foundation coursework; MSW advanced standing; or Instructor permission.

Credits: 3.

**SWSS 310 - Social Work with Children & Families I**

Focus is on families whose major task is child rearing and child caring. Covers advanced knowledge, concepts, and methods of contemporary child/family services within a family-centered approach. Prerequisites: Completion of foundation course work; MSW advanced standing; or Instructor permission.

Credits: 3.

**SWSS 311 - Social Work with Children & Families II**

Focus is on families with adolescents, families with no children and families with dependent adults. Advanced analysis of families from an adult member perspective and from a critical view of family ideology and myth. Prerequisites: Completion of foundation coursework; MSW advanced standing; or Instructor permission.

Credits: 3.

**SWSS 316 - Critical Application of Human Behavior & Social Environment**

This course emphasizes advanced analyses of behavioral and social theories as related to social work practice in health and mental health and/or with children and

families. Prerequisite: Completion of 216 and 217, MSW advanced standing or permission.

Credits: 3.

**SWSS 320 - Adv Soc Welf Policy Anyl&Prac**

In depth analysis of social welfare policy with application to children and families or health and mental health is required. There is an emphasis on the skills of the policy practitioner. Prerequisite: Completion of SWSS 220 and SWSS 221; MSW advanced standing; or Instructor permission.

Credits: 3.

**SWSS 327 - Adv Social Work Research**

An analysis of social work research from methodological and theoretical perspectives is emphasized. The application of research to the student's concentration area is required. Prerequisites: Completion of SWSS 227; a basic statistics course; MSW advanced standing; or Instructor permission.

Credits: 3.

**SWSS 330 - Assessment in Social Work**

An advanced MSW concentration elective that analyzes competing and complementary assessment strategies and their implications in social work in health/mental health and with children and families. Prerequisite: Completion of MSW foundation course work; or Instructor permission.

Credits: 3.

**SWSS 331 - Feminist Social Work Practice**

in a global context and emphasizes professional activism and leadership. Prerequisite: Completion of MSW foundation course work; or Instructor permission.

Credits: 3.

**SWSS 332 - SW w/Battered Women&Children**

An advanced MSW concentration elective that investigates theoretical and practical issues of social work practice with battered women and their children and develops related recommendations. Prerequisite: Completion of MSW foundation course work; or Instructor permission.

Credits: 3.

**SWSS 333 - Social Work with Groups**

An advanced MSW concentration elective that integrates professional history, conceptual overviews and direct experience with methods for group work distinctive to social work practice. Prerequisite: Completion of MSW foundation course work or Instructor permission.

Credits: 3.

**SWSS 380 - Prof Issues in Social Work**

Designed to cover selected social work issues in depth. Major emphasis on intensive and critical analysis of the literature and practice in a given area.

Prerequisite: Instructor Permission.

Credits: 2-4.

**SWSS 390 - Concentration Yr Field Pract**

Supervised field-based learning of 15-20 hours per week. Students are placed in human service agencies and organizations and apply advanced social work practice related Completion of all Foundation Year Graduate Level Coursework; permission of Field Education Coordinator.

Credits: 3-4.

**SWSS 397 - Independent Study**

Individual work on Social Work issue(s) selected by the student in consultation with a faculty member. Prerequisite: Instructor permission required.

Credits: 1-6.

**SWSS 398 - Final Project**

A written identification and analysis of a social work issue related to the student's concentration is prepared and presented. Prerequisite: Successful completion of foundation coursework and Instructor permission. Variable three credits. Total of three credits required. Fulfills Graduate College comprehensive examination requirement.

Credits: 1-3.

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Colleges and Schools > College of Education and Social Services > Departments and Programs > Social Work Department > Faculty

## Faculty for Social Work Department

Jacquelyn Lee Barna  
 Senior Lecturer of Social Work  
 Appointed in [2000](#)  
[Social Work Department](#)  
 BA 1983 [Dickinson College](#)  
 MSW 1990 [California State University Long Beach](#)  
[Search Courses for Jacquelyn Barna](#)

Karen E. Bielawski-Branch  
 Adjunct Lecturer of Social Work  
 Appointed in [2000](#)  
[Social Work Department](#)  
 BA 1982 [Rutgers University](#)  
 MSW 1987 [Adelphi University](#)  
[Search Courses for Karen Bielawski-Branch](#)

Gale E. Burford  
 Professor of Social Work  
 Appointed in [1999](#)  
[Social Work Department](#)  
 BA 1968 [Saint Martin's University](#)  
 MSW 1971 [University of Washington](#)  
 PHD 1990 [University of Stirling](#)  
[Search Courses for Gale Burford](#)

- Education  
Leon Frederick Burrell  
Lecturer of Leadership and Developmental Sciences
- Graduate College  
Professor of Social Work Emeritus  
Appointed in [2002](#)
- Honors College  
[Leadership and Developmental Sciences Department](#)  
[Social Work Department](#)
- School of Business Administration  
BS 1965 [Michigan State University](#)  
MA 1968 [Michigan State University](#)  
PHD 1971 [Michigan State University](#)  
MSW 1985 [McGill University](#)  
[Search Courses for Leon Burrell](#)
- The Rubenstein School of Environment and Natural Resources

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Susan Ann Comerford  
Associate Professor of Social Work  
Appointed in [1998](#)

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Faculty and Administration

[Social Work Department](#)  
BSW 1980 [SUNY Brockport](#)  
MSW 1983 [Fordham University](#)

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Catalogue Archives

PHD 1998 [Case Western Reserve University](#)  
[Search Courses for Susan Comerford](#)

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Celia A.W. Cuddy  
Lecturer I of Social Work  
Appointed in [2000](#)  
[Social Work Department](#)  
BA 1987 [Hampshire College](#)  
MSW 1998 [University of Vermont](#)  
[Search Courses for Celia Cuddy](#)

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Wanda Renarda Heading-Grant  
Clinical Associate Professor of Social Work  
Appointed in [1990](#)  
[Diversity Office](#)  
[Social Work Department](#)  
BS 1987 [University of Vermont](#)  
MSW 1988 [Adelphi University](#)  
EDD 2003 [University of Vermont](#)  
[Search Courses for Wanda Heading-Grant](#)

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Laurie J. Larson  
Lecturer I of Social Work  
Appointed in [2002](#)  
[Social Work Department](#)



AA 1977 [Highland Community College](#)  
BS 1980 [University of Illinois Urbana-Champaign](#)  
MA 1991 [Goddard College](#)  
[Search Courses for Laurie Larson](#)

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Coleen Ann Lillie  
Adjunct Lecturer of Social Work  
Appointed in [2002](#)  
[Social Work Department](#)  
BA 1981 [Boston University](#)  
MSW 1987 [Simmons College](#)  
[Search Courses for Coleen Lillie](#)

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Fiona M. Patterson  
Associate Professor of Social Work  
Appointed in [1999](#)  
[Social Work Department](#)  
BA 1960 [Oberlin College](#)  
MFA 1965 [Rhode Island School of Design](#)  
MSW 1976 [University of Pennsylvania](#)  
DSW 1999 [University of Pennsylvania](#)  
[Search Courses for Fiona Patterson](#)

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Ann Denison Pugh  
Senior Lecturer of Social Work  
Appointed in [1985](#)  
[Social Work Department](#)  
BS 1974 [Union College](#)  
MSW 1975 [Washington University in St Louis](#)  
CAS 1991 [University of Vermont](#)  
[Search Courses for Ann Pugh](#)

---

Gail Rafferty  
Adjunct Instructor of Social Work  
Appointed in [2000](#)  
[Social Work Department](#)  
BS 1981 [Boston University](#)  
MSW 1997 [University of Vermont](#)  
[Search Courses for Gail Rafferty](#)

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Julie Lynn Richards  
Senior Lecturer of Social Work  
Appointed in [1997](#)

[Social Work Department](#)

BS 1987 [University of Vermont](#)

MSW 1991 [McGill University](#)

[Search Courses for Julie Richards](#)

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Susan E. Roche

Associate Professor of Social Work

Appointed in [1991](#)

[Social Work Department](#)

BA 1974 [Northeastern Illinois University](#)

MSW 1981 [University of Louisville](#)

PHD 1991 [Rutgers University New Brunswick/Piscataway](#)

[Search Courses for Susan Roche](#)

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Brenda M. Solomon

Associate Professor of Social Work

Appointed in [1999](#)

[Social Work Department](#)

BA 1980 [Nazareth College of Rochester](#)

MSW 1990 [Syracuse University](#)

PHD 1999 [Syracuse University](#)

[Search Courses for Brenda Solomon](#)

---

Mary Skidmore Taylor

Lecturer I of Social Work

Research Associate of Social Work

Appointed in [1995](#)

[Social Work Department](#)

BA 1968 [Douglass College](#)

MSW 1979 [Rutgers University New Brunswick/Piscataway](#)

[Search Courses for Mary Taylor](#)

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Harry L. Thompson

Associate Professor of Social Work Emeritus

Appointed in [1971](#)

[Social Work Department](#)

[Search Courses for Harry Thompson](#)

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Anne Wallace

Lecturer of Social Work

Appointed in [2002](#)

[Social Work Department](#)

BA 1970 [Wellesley College](#)

MSW 1992 [University of Vermont](#)

[Search Courses for Anne Wallace](#)

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Gary Charles Widrick

Chairperson of Social Work

Lecturer of Social Work

Research Associate Professor of Social Work

Appointed in [1980](#)

[Social Work Department](#)

BA 1969 [Syracuse University](#)

MSW 1974 [SUNY Albany](#)

MA 1986 [University of Vermont](#)

PHD 1989 [University of Vermont](#)

[Search Courses for Gary Widrick](#)

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Stanley L. Witkin

Professor of Social Work

Appointed in [1991](#)

[Social Work Department](#)

AA 1967 [Miami Dade College](#)

BA 1969 [University of Minnesota Twin Cities](#)

MSSW 1974 [University of Wisconsin Madison](#)

PHD 1976 [University of Wisconsin Madison](#)

[Search Courses for Stanley Witkin](#)

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Colleges and Schools > College of Education and Social Services > Requirements > College of Education and Social Services Degree Requirements

## College of Education and Social Services Degree Requirements

Students must meet standards and requirements for each program approved by the College Academic Affairs Committee, the College faculty, the Dean, and the University Academic Affairs Committee. All programs nationally accredited meet the standards of their professional group: Athletic Training Education program by the Commission on Accreditation of Allied Health Education Programs (CAAHEP); Social Work by the Council on Social Work Education (CSWE); Teacher Education programs (Art, Early Childhood Pre K-3, Early Childhood Special Education, Elementary, Family and Consumer Sciences, Middle Level, Music, Physical Education and Secondary Education) by the Vermont State Department of Education and by the National Council for the Accreditation of Teacher Education (NCATE).

Copies of the degree requirements for each program are available in our Student Services Office (528 Waterman), on the [Web](#) , and are also provided to students during Orientation sessions.

Students receive an Orientation Advising Packet which explains how the requirements can be fulfilled during a four-year period. Discussions with advisors provide students with information needed to plan the time span for program completion that meets their needs. Students who enroll in the College of Education and Social Services are expected to become very familiar with the degree requirements for their programs.

### Criminal Record Check (CRC) Requirement

Students who matriculate in the College of Education and Social Services should expect to complete a Criminal Record Check (CRC) as a prerequisite for working in schools and agencies. Evidence of a Criminal Record may prevent students from being eligible to fulfill the field placement/teaching internship requirement.

Human Development and Social Work majors may be required by individual agencies to

- Education complete the CRC to be eligible for an internship in a specific agency. It is also important to note that membership in professional associations upon graduation, at least in the case of most social work organizations, typically requires a criminal background check as does employment in an ever-increasing number of human service agencies.
- Graduate College
- Honors College

- School of Business Administration

- The Rubenstein School of Environment and Natural Resources

Students enrolled in the Teacher Education programs are required to complete the CRC to be eligible for the public school teaching internship and may also be required to complete the CRC during the sophomore and junior years. Each individual school makes the determination concerning the sophomore and junior experiences, but it is a State requirement that all students complete the CRC for eligibility to student teach.

The cost is covered by each individual student and is subject to change.

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### Disciplinary Action Related to Academic Performance

Disciplinary actions, such as placement on trial, disenrollment, or dismissal are designed to encourage high level academic work from students. The CESS guidelines are more stringent than those for the University. Students, including first-year and new transfer students, can be dismissed without first being placed on trial.

A student is subject to academic disciplinary action, including dismissal from the University, if (a) his or her semester or cumulative average falls below 2.0; or (b) if he or she has failed six or more credit hours of course work in a given semester. This includes first-year and new transfer students.

A student who has a cumulative grade-point average of 2.0 or higher, but too low to meet specific program requirements, will be warned of pending disenrollment. Also, students who do not follow course requirements or who have not earned an appropriate grade point average for their program will be warned of pending disenrollment. If at the end of two subsequent semesters the student has failed to meet the requirements (courses and/or GPA) of his/her program, he/she will be disenrolled from the College.

Students who are placed on trial rather than being dismissed and who do not meet the conditions of trial will then be dismissed.

Students with "on-trial" status will not be allowed to participate in their senior internship, and they will not be eligible to graduate.

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Colleges and Schools > College of Education and Social Services > Requirements > Requirements for All Undergraduate Degree Students

## Requirements for All Undergraduate Degree Students

### College and School Requirements

Undergraduate degrees are conferred on the recommendation of the colleges/schools. Specific degree requirements may be found in the catalogue sections devoted to the respective colleges/schools.

### Grades

To be eligible for graduation, a student must have attained a cumulative grade-point average sufficient to meet the minimum requirements for the college/school in which the student is officially enrolled. Beginning with the class of 1984, the minimum grade-point average for graduation is 2.00. Grades in courses accepted for transfer credit are excluded in computing this average.

### UVM Residency in Last 30 of 45 Credit Hours

Every degree candidate must have taken 30 of the last 45 credit hours (15 of the last 30 for two-year students) in residence at the University before being awarded their degree. An exception to this rule exists for those students who have completed three years of premedical study in the University and are awarded their degrees after successful completion of one year of study in any approved college of medicine. Other exceptions to this rule may be made only upon decision of the dean or the appropriate faculty committee of the student's college/school.

### Second Bachelor's Degree

A student may earn more than one degree by satisfying all of the requirements for those degrees.

## Education

### Physical Education Requirement

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Two physical education credits, normally completed during the first or sophomore year, are required of all undergraduate students in four-year programs. These credits will be included in the total number of hours required for graduation. Students may opt to take physical education on a pass/no pass basis. Medical examinations are required of all new students. Those with serious conditions may be given restricted work or may be excused by the Director of the Student Health Center.

Students 25 years of age or older at time of admission or readmission are exempt from physical education requirements.

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Colleges and Schools > College of Education and Social Services > Requirements > Students Transferring into the College of Education and Social Services

## Students Transferring into the College of Education and Social Services

Enrolled UVM students wanting to transfer may secure an application at the Office of Student Services (528 Waterman Building) in the College of Education and Social Services or access the form [on-line](#) .

Students enrolled in appropriate programs in other colleges may apply to complete teacher licensure requirements for Secondary Education while they remain in their home college. Information and applications for admission to the Teacher Education program are available in the Secondary Education Office, 405A Waterman.

Students will only be considered eligible for transfer if they currently have an overall average of 2.5 and students in teacher education programs must also be able to earn an overall average of 3.0 or above by the time they reach program completion.

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Colleges and Schools > College of Engineering and Mathematics

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- **College of Engineering and Mathematics**
- College of Medicine
- College of Nursing and Health Sciences
- Continuing

## College of Engineering and Mathematics (CEM)

### Contact Information

*The University of Vermont*  
*College of Engineering and Mathematics*  
 33 Colchester Avenue  
 109 Votey Building  
 Burlington, VT 05405-0156

Phone: (802) 656-8413

Fax: (802) 656-8802

Email: [ssylvestf@emba.uvm.edu](mailto:ssylvestf@emba.uvm.edu)

[Web Site](#)

### Overview

The College offers stimulating, professionally-oriented programs for students interested in careers in computer science, engineering, and mathematics. Computer science develops creative problem-solving ability, along with essential skills in current programming and computing environments. It offers the flexibility to gear studies toward business, science, engineering, mathematics, and the arts. Engineering education combines the study of mathematics and the physical, life, and engineering sciences with application to the analysis and design of equipment, processes, and complete systems. The breadth and flexibility of the engineering programs provide a sound background for engineering practice in public or private domains, for graduate study in engineering and science, and for further professional study in such fields as business, law, or medicine. Engineering management, offered in cooperation with the School of Business Administration, combines a basic education in an engineering discipline with the study of management concepts and techniques. Mathematics and statistics are designed to train

### In this College

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- [Departments and Programs](#)
- [College of Engineering and Mathematics Undergraduate Academic Standards](#)
- [College of Engineering and Mathematics Undergraduate Cooperative Education Program](#)
- [College of Engineering and Mathematics Undergraduate Honors Thesis Program](#)
- [Requirements for All Undergraduate Degree Students](#)

- Education
- Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources

students in critical thinking, problem solving, and sound reasoning, while developing a strong level of technical competence and a substantial breadth of exposure to other fields. Bachelor of Science degrees in each of these disciplines provide distinctive recognition based on challenging course work, valuable field experience, and intensive student-faculty interaction.

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### Bachelor of Science (B.S.)

- [Civil Engineering: Environmental \(B.S.\)](#)
- [Civil Engineering: General \(B.S.\)](#)
- [Computer Science \(B.S.\)](#)
- [Computer Science: Computer Science and Information Systems \(B.S.\)](#)
- [Electrical Engineering: Biomedical Elective Concentration \(B.S.\)](#)
- [Electrical Engineering: Computer Elective Concentration \(B.S.\)](#)
- [Electrical Engineering: General Elective Concentration \(B.S.\)](#)
- [Electrical Engineering: Premedical Elective Concentration \(B.S.\)](#)
- [Engineering Management: Civil Engineering \(B.S.\)](#)
- [Engineering Management: Electrical Engineering \(B.S.\)](#)
- [Engineering Management: Mechanical Engineering \(B.S.\)](#)
- [Environmental Engineering \(B.S.\)](#)
- [Mathematics \(B.S.\)](#)
- [Mathematics: Statistics \(B.S.\)](#)
- [Mechanical Engineering: Biomedical \(B.S.\)](#)
- [Mechanical Engineering: General \(B.S.\)](#)
- [Mechanical Engineering: Premedical \(B.S.\)](#)

### Undergraduate Minor (Minor)

- [Computer Science \(Minor\)](#)
- [Electrical Engineering \(Minor\)](#)
- [Mathematics: Applied \(Minor\)](#)
- [Mathematics: Pure \(Minor\)](#)
- [Statistics \(Minor\)](#)

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Civil Engineering: Environmental (B.S.)

## Civil Engineering: Environmental (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Civil and Environmental Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CE 003 - Intro to Civil &amp; Envir Engr</a>	2	
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
Physical Education Elective	1	
HSS Electives <sup>1</sup>	3	6
<a href="#">ENGR 002 - Graphical Communication</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">CE 001 - Statics</a>	3	

Education	<u>CE 010 - Geomatics</u>	4	
• Graduate College	<u>MATH 121 - Calculus III</u>	4	
	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>	4	
• Honors College	<u>STAT 143 - Statistics for Engineering</u>	3	
• School of Business Administration	<u>CS 016 - Prog MATLAB Engineers&amp;Science</u> or <u>CE 011 - Computer-Based Tools for CE</u>		4
	<u>CHEM 032 - Introductory Chemistry</u> or <u>BIOL 002 - Principles of Biology</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>MATH 271 - Appl Math for Engr&amp;Scientists</u>		3
	<u>ME 012 - Dynamics</u>		3
Policies and General Information	HSS Elective <sup>1</sup>		3
	Total	18	17
Faculty and Administration	<b>JUNIOR</b>		
Catalogue Archives	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>CE 100 - Mechanics of Materials</u>	3	
	<u>CE 140 - Transportation</u>	3	
	<u>CE 150 - Environmental Engineering</u>	3	
	<u>CE 160 - Hydraulics</u>	4	
	HSS Elective <sup>1</sup>	3	
	<u>CE 101 - Materials Testing</u>		2
	<u>CE 151 - Water &amp; Wastewater Engineering</u>		3
	<u>CE 154 - Environmental Anyl Practice</u>		2
	<u>CE 170 - Structural Analysis I</u>		4
	<u>CE 180 - Geotechnical Principles</u>		4
	Total	16	15
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>EE 100 - Electrical Engr Concepts</u>	4	
	Professional Elective <sup>3</sup>	3	
	Physical Education	1	
	HSS Elective <sup>1</sup>	3	
	Design Elective <sup>2</sup>	3	3
	<u>CE 172 - Structural Steel Design</u> or <u>CE 173 - Reinforced Concrete</u>	(3)	(3)
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3

<u>CE 175 - Senior Design Project</u> <sup>4</sup>		3
<u>CE 176 - Senior Design Seminar</u> <sup>4</sup>		1
<u>ME 040 - Thermodynamics</u> <sup>4</sup>		3
<u>ME 044 - Heat Transfer</u> <sup>4</sup>		1
Total	14 or 17	14 or 17
TOTAL CREDITS: 131		

### Notes:

1. Required Social Humanities: Student must select six from the approved Humanities courses listed in the catalog, one of which must also be from the approved Cultural Diversity courses listed in the College of Arts and Sciences section of the catalog. Students must also meet the 6/9 distribution rule.
2. Design Electives are CE 142, CE 161, CE 241, CE 251, CE 253, CE 255, CE 256, CE 260, CE 261, CE 265, CE 280, CE 281, CE 283. Env.Design: CE 161, CE 253, CE 255, CE 256, CE 260, CE 262, CE 265, CE 280, CE 281, CE 283.
3. Professional Electives are all Design Electives plus CE 191, CE 192, any 200-level CE course.
4. Both CE 175 - Senior Design Project, and CE 176 - Senior Design Seminar are required of all seniors.

### Affiliations

- Colleges and Schools:College of Engineering and Mathematics.
- Departments and Programs:Civil and Environmental Engineering Department.

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Civil Engineering: General (B.S.)

## Civil Engineering: General (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Civil and Environmental Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CE 003 - Intro to Civil &amp; Envir Engr</a>	2	
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
Physical Education Elective	1	
HSS Electives <sup>1</sup>	3	6
<a href="#">ENGR 002 - Graphical Communication</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">CE 001 - Statics</a>	3	
<a href="#">CE 010 - Geomatics</a>	4	

Education	<u>MATH 121 - Calculus III</u>	4	
• Graduate College	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>	4	
• Honors College	<u>STAT 143 - Statistics for Engineering</u>	3	
• School of Business Administration	<u>CS 016 - Prog MATLAB Engineers&amp;Science</u> or <u>CE 011 - Computer-Based Tools for CE</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>MATH 271 - Appl Math for Engr&amp;Scientists</u>		3
	<u>ME 012 - Dynamics</u>		3
	HSS Elective <sup>1</sup>		3
	Science Elective <sup>2</sup>		4
	Total	18	17
Policies and General Information	<b>JUNIOR</b>		
Faculty and Administration	<b>Course</b>	<b>Term</b>	
Catalogue Archives		<b>Fall</b>	<b>Spring</b>
	<u>CE 100 - Mechanics of Materials</u>	3	
	<u>CE 140 - Transportation</u>	3	
	<u>CE 150 - Environmental Engineering</u>	3	
	<u>CE 160 - Hydraulics</u>	4	
	HSS Elective <sup>1</sup>	3	
	<u>CE 101 - Materials Testing</u>		2
	<u>CE 151 - Water &amp; Wastewater Engineering</u>		3
	<u>CE 170 - Structural Analysis I</u>		4
	<u>CE 180 - Geotechnical Principles</u>		4
	<u>ME 040 - Thermodynamics</u>		3
	<u>ME 044 - Heat Transfer</u>		1
	Total	16	17
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>CE 171 - Structural Analysis II</u>	3	
	Physical Education	1	
	<u>CE 172 - Structural Steel Design</u> <sup>5</sup>	3	
	Professional Elective <sup>4</sup>	3	
	<u>EE 100 - Electrical Engr Concepts</u>	4	
	HSS Elective <sup>1</sup>	3	
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3
	<u>CE 173 - Reinforced Concrete</u> <sup>5</sup>		3
	<u>CE 175 - Senior Design Project</u> <sup>6</sup>		3
	<u>CE 176 - Senior Design Seminar</u> <sup>6</sup>		1



Design Elective <sup>3</sup>		3
Total	17	13
TOTAL CREDITS: 132		

### Notes:

1. Required Social Humanities: Student must select six from the approved Humanities courses listed in the catalog, one of which must also be from the approved Cultural Diversity courses listed in the College of Arts and Sciences section of the catalog. Students must also meet the 6/9 distribution rule.
2. Science Elective must be a 4-credit course, with lab, i.e. Geology 1.
3. Design Electives are [CE 142](#), [CE 161](#), [CE 241](#), [CE 251](#), [CE 253](#), [CE 255](#), [CE 256](#), [CE 260](#), [CE 261](#), [CE 265](#), [CE 280](#), [CE 281](#), [CE 283](#). ~~Env.Design: CE 161, CE 253, CE 255, CE 256, CE 260, CE 262, CE 265, CE 280, CE 281, CE 283.~~
4. Professional Electives are all Design Electives plus [CE 191](#), [CE 192](#), any 200-level CE course.
5. General Option students must take both [CE 172](#) and [CE 173](#).
6. Both [CE 175 - Senior Design Project](#), and [CE 176 - Senior Design Seminar](#) are required of all seniors.

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Civil and Environmental Engineering Department](#).

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Computer Science (B.S.)

## Computer Science (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 124 credits (122, if the student is exempt from PEAC) are required as follows:

- Computer Science (41 credits): [CS 021](#), [CS 026](#), [CS 100](#), [CS 101](#), [CS 103](#), [CS 104](#), [CS 201](#), [CS 224](#) or [CS 243](#), [CS 292](#), plus fifteen additional credits (five courses) of 200-level courses (not more than three credits of which may be independent study);
- Mathematics (17 credits): [MATH 021](#), [MATH 022](#), [MATH 054](#); two of [MATH 121](#), [MATH 124](#), [MATH 173](#), [MATH 271](#);
- Statistics (3 credits): [STAT 153](#)
- Science (13 credits): advisor-approved science electives in Astronomy, Anatomy and Neurobiology, Biology, Botany, Chemistry, Environmental Science, Geology, Microbiology and Molecular Genetics, Nutrition and Food Sciences, Physics, [EE 003](#) or [EE 004](#), and to include one laboratory science sequence selected from the following:
  - Biology: [BIOL 001](#) or [BIOL 011](#), [BIOL 002](#) or [BIOL 012](#)
  - Chemistry: [CHEM 031](#) or [CHEM 035](#), [CHEM 032](#) or [CHEM 036](#)
  - Physics: [PHYS 031](#) (with [PHYS 021](#)), [PHYS 42](#) (with [PHYS 22](#))
- Technical Electives (6 credits): Two courses in approved technical electives. See the department for a current list of approved courses.
- Writing (3 credits): [ENGS 001](#), [ENGS 050](#), or [ENGS 053](#)
- HSS (18 credits): Six courses in social science, humanities, and fine arts electives. At least six credits must be chosen from the "Social Science Group" and at least

- |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Education                                                    | six credits from the "Humanities and Fine Arts Group," as defined below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| • Graduate College                                           | ◦ Social Science Group: ALANA U.S. Ethnic Studies, Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, Women's Studies, or other advisor-approved social science electives.                                                                                                                                                                                                                                                                                                                                                      |
| • Honors College                                             | ◦ Humanities and Fine Arts Group: Art, Classics, Film, Music, Philosophy, Religion, Speech, Theatre, language or literature, or other advisor-approved humanities or fine arts electives.                                                                                                                                                                                                                                                                                                                                                                           |
| • School of Business Administration                          | ◦ In addition, students must either complete a one credit "Race and Culture" course or ensure that at least one HSS elective also satisfies the "Non-European Culture" or "Race Relations and Ethnicity Requirements," as specified under General Requirements in the College of Arts and Sciences section of this catalogue.                                                                                                                                                                                                                                       |
| • The Rubenstein School of Environment and Natural Resources |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <hr/>                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Policies and General Information                             | <ul style="list-style-type: none"><li>• Non-CS Electives (9 additional credits): advisor-approved free electives (excluding CS and PEAC);</li><li>• Free Electives (12 additional credits): advisor-approved free electives (excluding PEAC);</li><li>• Physical Education - PEAC (2 credits): see the "Academic Policies" section of this catalogue for exceptions; and</li><li>• Students must complete a university approved minor (excluding computer science); courses used to fulfill other requirements may be used to satisfy minor requirements.</li></ul> |
| <hr/>                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Faculty and Administration                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <hr/>                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Catalogue Archives                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Note: No grade below a C- in any computer science course will be accepted, except as free elective credit.

## Curriculum

### Possible Curriculum

A sample course sequence can be found on the [Computer Science department web site](#) .

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#), [College of Arts and Sciences](#).
- Departments and Programs: [Computer Science Department](#).

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Computer Science: Computer Science and Information Systems (B.S.)

## Computer Science: Computer Science and Information Systems (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 125 credits (123, if the student is exempt from PEAC) are required as follows:

- Computer Science (35 credits): [CS 014](#), [CS 021](#), [CS 026](#), [CS 100](#), [CS 101](#), [CS 104](#), [CS 148](#), [CS 292](#), plus three additional credits (one course) at the 100-level or above ([CS 103](#) is recommended for students who wish to pursue graduate study in computer science), plus nine additional credits (three courses) at the 200-level; no more than three credits may be independent study;
- Business Administration (29 credits): [BSAD 060](#), [BSAD 061](#), [BSAD 120](#), [BSAD 132](#), [BSAD 141](#), [BSAD 143](#), [BSAD 150](#), [BSAD 173](#), [BSAD 180](#);
- Economics (6 credits): [EC 011](#), [EC 012](#)
- Mathematics (9 to 11 credits): [MATH 019/MATH 020](#), or [MATH 021/MATH 022](#) (recommended sequence), [MATH 054](#)
- Statistics (3 credits): [STAT 153](#)
- Science (8 to 10 credits): One laboratory science sequence, selected from the following three:
  - Biology: [BIOL 001](#), [BIOL 002](#)
  - Chemistry: [CHEM 031](#), [CHEM 032](#)
  - Physics: [PHYS 031](#) (with [PHYS 021](#)), [PHYS 042](#) (with [PHYS 022](#))
- Writing (3 credits): [ENGS 001](#), [ENGS 050](#), or [ENGS 053](#);
- HSS (18 credits): Six courses in social science, humanities, and fine arts electives.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

At least six credits must be chosen from the "Social Science Group" and at least six credits from the "Humanities and Fine Arts Group," as defined below.

- Social Science Group: ALANA U.S. Ethnic Studies, Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, Women's Studies, or other advisor-approved social science electives.
- Humanities and Fine Arts Group: Art, Classics, Film, Music, Philosophy, Religion, Speech, Theatre, language or literature, or other advisor-approved humanities or fine arts electives.
- In addition, students must either complete a one credit "Race and Culture" course or ensure that at least one HSS elective also satisfies the "Non-European Culture" or "Race Relations and Ethnicity Requirements," as specified under General Requirements in the College of Arts and Sciences section of this catalogue.

## Policies and General Information

- Free Electives (12 additional credits): advisor-approved free electives (excluding PEAC);
- Physical Education - PEAC (2 credits): see the "Academic Policies" section of this catalogue for exceptions.

## Faculty and Administration

No grade below a C- in any computer science or business administration course will be accepted, except as free elective credit.

## Catalogue Archives

### Curriculum

### Possible Curriculum

A sample course sequence can be found on the Computer Science department [web site](#) .

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#). [College of Arts and Sciences](#).
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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Electrical Engineering: Biomedical Elective Concentration (B.S.)

## Electrical Engineering: Biomedical Elective Concentration (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Electrical and Computer Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">EE 001 - First-year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">CHEM 042 - Intro Organic Chemistry</a>		4
HSS Electives <sup>1</sup>		6
Physical Education Elective		1
Total	17	17
SOPHOMORE		
Course	Credits	
	Fall	Spring

Education	<a href="#">MATH 121 - Calculus III</a>	4	
• Graduate College	<a href="#">PHYS 031 - Introductory Physics</a>	4	
	<a href="#">PHYS 021 - Introductory Lab I</a>	1	
• Honors College	<a href="#">EE 003 - Linear Circuit Analysis I</a>	3	
	<a href="#">EE 081 - Linear Circuits Laboratory I</a>	2	
• School of Business Administration	HSS Electives <sup>1</sup>	3	3
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3
• The Rubenstein School of Environment and Natural Resources	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>		4
	<a href="#">PHYS 022 - Introductory Lab II</a>		1
	<a href="#">EE 004 - Linear Circuit Analysis II</a>		3
	<a href="#">EE 082 - Linear Circuits Laboratory II</a>		2
Policies and General Information	Total	17	16
	<b>JUNIOR</b>		
Faculty and Administration	<b>Course</b>	<b>Credits</b>	
		<b>Fall</b>	<b>Spring</b>
Catalogue Archives	<a href="#">EE 120 - Electronics I</a>	3	
	<a href="#">EE 163 - Solid State Phys Electronics I</a>	4	
	<a href="#">EE 183 - Electronics Laboratory I</a>	2	
	<a href="#">ANPS 019 - Ugr Hum Anatomy &amp; Physiology</a>	4	
	<a href="#">STAT 143 - Statistics for Engineering</a> or <a href="#">STAT 151 - Applied Probability</a>	3	
	<a href="#">EE 121 - Electronics II</a>		3
	<a href="#">EE 134 - Fund of Microcomp Based Syst</a> or <a href="#">EE 227 - Biomed Measmnts Instrum &amp; Sys</a>		4 or 3
	<a href="#">EE 184 - Electronics Laboratory II</a>		2
	<a href="#">ME 114 - Intro Engineering Mechanics</a>		3
	<a href="#">ANPS 020 - Ugr Hum Anatomy &amp; Physiology</a>		4
	Physical Education Elective		1
	Total	16	17 or 16
	<b>SENIOR</b>		
		<b>Course</b>	<b>Credits</b>
<b>Fall</b>			<b>Spring</b>
	<a href="#">EE 141 - Electromagnetic Field Theory I</a>	3	
	<a href="#">EE 171 - Signals &amp; Systems</a>	4	
	<a href="#">EE 185 - Systems and Applications Lab</a>	1	
	<a href="#">EE 187 - Professional Design Issues</a>	2	
	<a href="#">ME 207 - Biomechanics I</a>	3	
	HSS Electives <sup>1</sup>	3	3
	<a href="#">EE 142 - Electromagnetic Field Thry II</a>		3

<a href="#"><u>EE 174 - Intro to Communication Systems</u></a>		3
<a href="#"><u>EE 186 - Telecommunications Lab</u></a>		1
<a href="#"><u>EE 188 - Major Design Experience</u></a>		2
<a href="#"><u>EE 134 - Fund of Microcomp Based Syst</u></a> or <a href="#"><u>EE 227 - Biomed Measmnts Instrum &amp; Sys</u></a>		4 or 3
Total	16	16 or 15
TOTAL CREDITS: 131		

**Notes:**

1. HSS Electives (18 credits): Students must select one HSS course from the list of approved race and culture courses.

**Affiliations**

- Colleges and Schools:[College of Engineering and Mathematics](#).
- Departments and Programs:[Electrical and Computer Engineering Department](#).

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Electrical Engineering: Computer Elective Concentration (B.S.)

## Electrical Engineering: Computer Elective Concentration (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Electrical and Computer Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">EE 001 - First-year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
HSS Electives <sup>1</sup>		6
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring

Education	<a href="#">EE 003 - Linear Circuit Analysis I</a>	3		
• Graduate College	<a href="#">EE 081 - Linear Circuits Laboratory I</a>	2		
	<a href="#">MATH 121 - Calculus III</a>	4		
• Honors College	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4		
	<a href="#">PHYS 022 - Introductory Lab II</a>	1		
• School of Business Administration	HSS Electives <sup>1</sup>	3	3	
	<a href="#">EE 004 - Linear Circuit Analysis II</a>		3	
• The Rubenstein School of Environment and Natural Resources	<a href="#">EE 082 - Linear Circuits Laboratory II</a>		2	
	<a href="#">CS 026 - Computer Programming II</a>		3	
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3	
	<a href="#">STAT 143 - Statistics for Engineering</a> or <a href="#">STAT 151 - Applied Probability</a>		3	
	Total	17	17	
Policies and General Information	<b>JUNIOR</b>			
Faculty and Administration	<b>Course</b>	<b>Term</b>		
		<b>Fall</b>	<b>Spring</b>	
Catalogue Archives	<a href="#">EE 120 - Electronics I</a>	3		
	<a href="#">EE 131 - Fundamentals of Digital Design</a>	3		
	<a href="#">EE 163 - Solid State Phys Electronics I</a> or <a href="#">EE 171 - Signals &amp; Systems</a>	4		
	<a href="#">MATH 054 - Fund of Math of Computation</a>	3		
	HSS Electives <sup>1</sup>	3	3	
	<a href="#">EE 121 - Electronics II</a>		3	
	<a href="#">EE 134 - Fund of Microcomp Based Syst</a>		4	
	<a href="#">CS 104 - Data Structures</a>		3	
	CS Elective <sup>2</sup>		3	
	Total	16	16	
	<b>SENIOR</b>			
		<b>Course</b>	<b>Term</b>	
			<b>Fall</b>	<b>Spring</b>
		<a href="#">EE 141 - Electromagnetic Field Theory I</a>	3	
		<a href="#">EE 163 - Solid State Phys Electronics I</a> or <a href="#">EE 171 - Signals &amp; Systems</a>	4	
	<a href="#">EE 183 - Electronics Laboratory I</a>	2		
	<a href="#">EE 187 - Professional Design Issues</a>	2		
	EE Design Elective <sup>3</sup>	3		
	EE/CS Technical Elective <sup>4</sup>	3		
	<a href="#">EE 174 - Intro to Communication Systems</a>		3	

<u>EE 184 - Electronics Laboratory II</u>		2
<u>EE 188 - Major Design Experience</u>		2
CS Elective <sup>2</sup>		3
Non-EE Engineering Science Elective <sup>5</sup>		3
Physical Education Elective		2
Total	17	15
TOTAL CREDITS: 132		

### Notes:

1. HSS Electives (18 credits): Students must select one HSS course from the list of approved race and culture courses.
2. CS Electives: A 100-level or higher CS course (except CS 148) that must be preapproved by your advisor.
3. EE Design Electives: EE 221, EE 222, EE 224, EE 227, EE 228, EE 231, EE 250, EE 251, EE 275, EE 276, EE 295.
4. EE/CS Technical Electives: EE 113, EE 164, EE 210, EE 221, EE 222, EE 224, EE 227, EE 228, EE 231, EE 241, EE 245, EE 246, EE 250, EE 251, EE 261, EE 266, EE 274, EE 275, EE 276, EE 295; any 100-level or higher CS course (except CS 148; note: CS 195 and CS 295 must have advisor approval).
5. Non-EE Engineering Science Electives: CE 001, CE 010, CE 150; ME 012, ME 040, ME 114.

### Affiliations

- Colleges and Schools: College of Engineering and Mathematics.
- Departments and Programs: Electrical and Computer Engineering Department.

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Electrical Engineering: General Elective Concentration (B.S.)

## Electrical Engineering: General Elective Concentration (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Electrical and Computer Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">EE 001 - First-year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
HSS Electives <sup>1</sup>		6
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring

Education	<a href="#">EE 003 - Linear Circuit Analysis I</a>	3	
• Graduate College	<a href="#">EE 081 - Linear Circuits Laboratory I</a>	2	
	<a href="#">EE 131 - Fundamentals of Digital Design</a>	3	
• Honors College	<a href="#">MATH 121 - Calculus III</a>	4	
• School of Business Administration	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4	
	<a href="#">PHYS 022 - Introductory Lab II</a>	1	
	<a href="#">EE 004 - Linear Circuit Analysis II</a>		3
• The Rubenstein School of Environment and Natural Resources	<a href="#">EE 082 - Linear Circuits Laboratory II</a>		2
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3
	<a href="#">STAT 143 - Statistics for Engineering</a> or [[course:stat 151 STAT 151 - Applied Probability]]		3
	HSS Electives <sup>1</sup>		6
Policies and General Information	Total	17	17
Faculty and Administration	<b>JUNIOR</b>		
Catalogue Archives	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EE 120 - Electronics I</a>	3	
	<a href="#">EE 163 - Solid State Phys Electronics I</a>	4	
	<a href="#">EE 171 - Signals &amp; Systems</a>	4	
	<a href="#">EE 183 - Electronics Laboratory I</a>	2	
	HSS Elective <sup>1</sup>	3	
	<a href="#">EE 121 - Electronics II</a>		3
	<a href="#">EE 134 - Fund of Microcomp Based Syst</a>		4
	<a href="#">EE 164 - Solid St Phys Electronics II</a>		3
	<a href="#">EE 174 - Intro to Communication Systems</a>		3
	<a href="#">EE 184 - Electronics Laboratory II</a>		2
	Physical Education Elective		1
	Total	16	16
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EE 141 - Electromagnetic Field Theory I</a>	3	
	<a href="#">EE 185 - Systems and Applications Lab</a>	1	
	<a href="#">EE 187 - Professional Design Issues</a>	2	
	Non-EE Engineering Science Elective <sup>2</sup>	3	
	EE Design Elective <sup>3</sup>	3	
	EE Engineering Science Elective <sup>4</sup>	3	3
	<a href="#">EE 142 - Electromagnetic Field Thry II</a>		3
	<a href="#">EE 186 - Telecommunications Lab</a>		1

<u>EE 188 - Major Design Experience</u>		2
Technical Elective <sup>5</sup>		3
HSS Elective <sup>1</sup>		3
Physical Education Elective		1
Total	15	16
TOTAL CREDITS: 131		

### Notes:

1. HSS Electives (18 credits): Students must select one HSS course from the list of approved race and culture courses.
2. Non-EE Engineering Science Electives: CE 001, CE 010, CE 150; ME 012, ME 040, ME 114.
3. EE Design Electives: EE 221, EE 222, EE 224, EE 227, EE 228, EE 231, EE 250, EE 251, EE 275, EE 276, EE 295.
4. EE Engineering Science Electives: EE 113, EE 210, EE 241, EE 242, EE 245, EE 246, EE 261, EE 266, EE 274.
5. Technical Electives: EE 113, EE 164, EE 210, EE 221, EE 222, EE 224, EE 227, EE 228, EE 231, EE 241, EE 245, EE 246, EE 250, EE 251, EE 261, EE 266, EE 274, EE 275, EE 276, EE 295; CS 026, CS 100, CS 101, CS 103, CS 104, CS 201, CS 222; PHYS 128; ME 014, ME 040, ME 114, ME 150; CE 125; CHEM 161; MATH 054, MATH 124, MATH 173; STAT 143, STAT 151; all 200-level MATH or STAT courses except for practicum, seminar and special topics.

### Affiliations

- Colleges and Schools: College of Engineering and Mathematics.
- Departments and Programs: Electrical and Computer Engineering Department.

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Electrical Engineering: Premedical Elective Concentration (B.S.)

## Electrical Engineering: Premedical Elective Concentration (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Electrical and Computer Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">EE 001 - First-year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">CHEM 032 - Intro Organic Chemistry</a>		4
HSS Electives <sup>1</sup>		6
Physical Education Elective		1
Total	17	17
SOPHOMORE		
Course	Credits	
	Fall	Spring

Education	<u>MATH 121 - Calculus III</u>	4		
• Graduate College	<u>PHYS 031 - Introductory Physics</u>	4		
	<u>PHYS 021 - Introductory Lab I</u>	1		
• Honors College	<u>EE 003 - Linear Circuit Analysis I</u>	3		
	<u>EE 081 - Linear Circuits Laboratory I</u>	2		
• School of Business Administration	HSS Electives <sup>1</sup>	3	3	
	<u>MATH 271 - Appl Math for Engr&amp;Scientists</u>		3	
• The Rubenstein School of Environment and Natural Resources	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>		4	
	<u>PHYS 022 - Introductory Lab II</u>		1	
	<u>EE 004 - Linear Circuit Analysis II</u>		3	
	<u>EE 082 - Linear Circuits Laboratory II</u>		2	
Policies and General Information	Total	17	16	
<b>JUNIOR</b>				
Faculty and Administration	<b>Course</b>	<b>Credits</b>		
		<b>Fall</b>	<b>Spring</b>	
Catalogue Archives	<u>BIOL 001 - Principles of Biology</u>	4		
	<u>EE 141 - Electromagnetic Field Theory I</u>	3		
	<u>CHEM 141 - Organic Chemistry</u>	4		
	<u>STAT 143 - Statistics for Engineering</u> or <u>STAT 151 - Applied Probability</u>	3		
	HSS Electives <sup>1</sup>	3	3	
	<u>BIOL 002 - Principles of Biology</u>		4	
	<u>EE 134 - Fund of Microcomp Based Syst</u>		4	
	<u>CHEM 142 - Organic Chemistry</u>		4	
	Physical Education Elective		1	
	Total	17	16	
	<b>SENIOR</b>			
		<b>Course</b>	<b>Credits</b>	
			<b>Fall</b>	<b>Spring</b>
	<u>EE 120 - Electronics I</u>	3		
	<u>EE 163 - Solid State Phys Electronics I</u>	4		
	<u>EE 171 - Signals &amp; Systems</u>	4		
	<u>EE 183 - Electronics Laboratory I</u>	2		
	<u>EE 187 - Professional Design Issues</u>	2		
	<u>EE 121 - Electronics II</u>		3	
	<u>EE 174 - Intro to Communication Systems</u>		3	
	<u>EE 184 - Electronics Laboratory II</u>		2	
	<u>EE 188 - Major Design Experience</u>		2	
	EE Engineering Science Elective <sup>2</sup>		3	



Non-EE Engineering Science Elective <sup>3</sup>		3
Total	15	16
TOTAL CREDITS: 131		

**Notes:**

1. HSS Electives (18 credits): Students must select one HSS course from the list of approved race and culture courses.
2. EE Engineering Science Electives: [EE 113](#), [EE 210](#), [EE 241](#), [EE 242](#), [EE 245](#), [EE 246](#), [EE 261](#), [EE 266](#), [EE 274](#).
3. Non-EE Engineering Science Electives: [CE 001](#), [CE 010](#), [CE 150](#); [ME 012](#), [ME 040](#), [ME 114](#).

**Affiliations**

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Electrical and Computer Engineering Department](#).

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Engineering Management: Civil Engineering (B.S.)

## Engineering Management: Civil Engineering (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Engineering Curricula](#)

### Specific Requirements

#### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">MATH 021 - Calculus I</a>	4	
HSS Elective	3	3
Physical Education Elective	1	1
<a href="#">EC 011 - Principles of Macroeconomics</a>		3
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
<a href="#">PHYS 031 - Introductory Physics</a>		4
Total	17	16
SOPHOMORE		
Course	Term	

Education		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 060 - Financial Accounting</u>	4	
• Graduate College	<u>CE 001 - Statics</u>	3	
	<u>CE 010 - Geomatics</u>	3	
• Honors College	<u>CE 012 - Geomatics Lab</u>	1	
	<u>EC 012 - Principles of Microeconomics</u>	3	
• School of Business Administration	<u>MATH 121 - Calculus III</u>	4	
	<u>BSAD 061 - Managerial Accounting</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>CE 011 - Computer-Based Tools for CE</u> or <u>CS 016 - Prog MATLAB Engineers&amp;Science</u>		4
	<u>MATH 271 - Applied Math</u>		3
Policies and General Information	<u>ME 012 - Dynamics</u>		3
	<u>ME 014 - Mechanics of Solids</u>		3
Faculty and Administration	Total	18	17
Catalogue Archives	<b>JUNIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 120 - Management &amp; Organ Behav</u>	3	
	<u>CE 160 - Hydraulics</u>	4	
	<u>CE 140 - Transportation</u>	3	
	<u>PHYS 22 - Introductory Lab II</u>	1	
	<u>PHYS 42 - Electromagnetism &amp; Modern Phys</u>	4	
	<u>BSAD 141 - Management Info Systems</u>		3
	<u>BSAD 173 - Production &amp; Operations Analysis</u>		3
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3
	<u>CE 170 - Structural Analysis</u>		4
	<u>STAT 143 - Stat for Engineers; or</u> <u>STAT 211 - Stat Methods I</u>		3
	Total	15	16
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 178 - Quality Control</u> or <u>STAT 224 - Statistics for Qual &amp; Prod</u>	3	
	<u>CE 150 - Environmental Engr</u>	3	
	<u>EE 100 - Electrical Engr Concepts</u>	4	
	<u>EMGT 185 - Senior Project</u>	3	
	HSS Elective	3	
	<u>BSAD - 270 Quant Analysis</u>		

or <u>BSAD 272 - Discrete Simulation</u>		3
HSS Elective		3
CE Conc Elective <sup>1</sup>		3-4
Engr Mgmt Electives <sup>2</sup>		6
Total	16	15-16
TOTAL CREDITS: 130-131		

**Notes:**

1. CE Concentration Electives: CE 151, CE 161, CE 171, CE 172, CE 175, CE 180, CE 260, CE 261, and ME 040 with ME 044.
2. Engineering Management Electives: BSAD 143, BSAD 144, BSAD 145, BSAD 168, BSAD 170, BSAD 174, BSAD 177, BSAD 192; and Statistics STAT 221, STAT 224, STAT 225, STAT 229, STAT 231, STAT 233, STAT 237, STAT 253; EMGT 175.

**Affiliations**

- Colleges and Schools: College of Engineering and Mathematics.
- Departments and Programs: Engineering Management Program.

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## Engineering Management: Electrical Engineering (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Engineering Curricula](#)

### Specific Requirements

#### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">EE 001 - Design Exp</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
<a href="#">PHYS 031 - Introductory Physics</a>		4
HSS Electives		6
Total	17	17
SOPHOMORE		
Course	Term	

		Fall	Spring
Education	<u>BSAD 060 - Financial Accounting</u>	4	
• Graduate College	<u>EC 011 - Principles of Macroeconomics</u>	3	
• Honors College	<u>EE 003 - Linear Circuit Analysis I</u>	3	
	<u>EE 081 - Linear Circuits Laboratory I</u>	2	
• School of Business Administration	<u>MATH 121 - Calculus III</u>	4	
	Physical Education Elective	1	
• The Rubenstein School of Environment and Natural Resources	<u>BSAD 061 - Managerial Accounting</u>		4
	<u>EE 004 - Linear Circuit Analysis II</u>		3
	<u>EE 082 - Linear Circuits Laboratory II</u>		2
	<u>MATH 271 - Applied Math for Engr &amp; Scientists</u>		3
	<u>PHYS 022 - Introductory Lab II</u>		1
Policies and General Information	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>		4
	Total	17	17
Faculty and Administration	<b>JUNIOR</b>		
	<b>Course</b>	<b>Term</b>	
Catalogue Archives		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 141 - Mgmt Info Systems</u>	3	
	<u>EC 012 - Principles of Microeconomics</u>	3	
	<u>EE 131 - Fundamentals of Digital Design</u>	3	
	<u>EE 120 - Electronics I</u>	3	
	<u>STAT 143 - Stat for Engineers</u> or <u>STAT 211 - Stat Methods I</u>	3	
	Physical Education	1	
	<u>BSAD 173 - Production &amp; Operations Analysis</u>		3
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3
	<u>EE 121 - Electronics II</u>		3
	<u>EE 134 - Fund of Microcomp Based Syst</u>		4
	HSS Elective		3
	Total	16	16
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 120 - Prin Mgmt &amp; Org Behavior</u>	3	
	<u>BSAD 178 - Quality Control</u> or <u>STAT 224 - Statistics for Qual &amp; Prod</u>	3	
	<u>EE 163 - Solid State Phys Electronics I</u> or <u>EE 171 - Signals &amp; Systems</u>	4	

<u>EMGT 185 - Senior Project</u>	3	
HSS Elective	3	
<u>BSAD 270 - Quant Analysis</u> or <u>BSAD 272 - Discrete Simulation</u>		3
<u>EE 231 - Digital Computer Design</u>		3
EE Conc Elective <sup>1</sup>		3-4
Engineering Management Elective <sup>2</sup>		6
Total	16	15-16

**Total Credits:** 131-132

### Notes:

1. EE Concentration Electives: EE 113, EE 141, EE 163 (if not used to fulfill another requirement), EE 164 (EE 163 is prerequisite), EE 171 (if not used to fulfill another requirement), EE 174 (171 is prerequisite), EE 183 and EE 184 (both courses are needed to meet this requirement), EE 210, EE 228, EE 250, EE 251, and EE 295.
2. Engineering Management Electives: BSAD 143, BSAD 144, BSAD 145, BSAD 168, BSAD 170, BSAD 174, BSAD 177, BSAD 192; EMGT 175; and STAT 221, STAT 224, STAT 225, STAT 229, STAT 231, STAT 233, STAT 237, STAT 253.

### Affiliations

- Colleges and Schools: College of Engineering and Mathematics.
- Departments and Programs: Engineering Management Program.

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Engineering Management: Mechanical Engineering (B.S.)

## Engineering Management: Mechanical Engineering (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Engineering Curricula](#)

### Specific Requirements

#### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Intro to Chemistry</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
HSS Electives	3	3
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">ME 001 - Design Exp</a>		2
<a href="#">PHYS 21 - Introductory Lab I</a>		1
<a href="#">PHYS 031 - Introductory Physics</a>		4
Physical Education Elective/td>		1
Total	16	15
SOPHOMORE		
Course	Term	
	Fall	Spring



		Fall	Spring
Education	<u>BSAD 060 - Financial Acctng</u>	4	
• Graduate College	<u>EC 011 - Principles of Macroeconomics</u>	3	
• Honors College	<u>MATH 121 - Calculus III</u>	4	
	<u>ME 040 - Thermodyn and Heat Transfer</u>	3	
• School of Business Administration	Physical Education Electives	1	
	<u>BSAD 061 - Managerial Acctng</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>MATH 271 - Applied Math</u>		3
	<u>ME 114 - Intro Engineering Mechanics</u>		3
	<u>ME 082 - Mech Engineering Lab I</u>		3
	<u>PHYS 022 - Introductory Lab II</u>		1
	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>		4
Policies and General Information	Total	15	18
	<b>JUNIOR</b>		
Faculty and Administration	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
Catalogue Archives	<u>BSAD 141 - Mgmt Info Systems</u>	3	
	<u>EC 12 - Prin of Economics</u>	3	
	<u>EE 100 - Elect Engr Concepts I</u>	4	
	<u>MATH 124 - Linear Algebra</u>	3	
	<u>ME 161 - Manufacturing Engineering I</u>	3	
	<u>BSAD 173 - Prod &amp; Oper Analy</u>		3
	<u>CE 125 - Engr Economics</u>		3
	<u>ME 162 - Manufacturing Engineering II</u>		3
	<u>ME 171 - Design of Elements</u>		3
	<u>STAT 143 - Stat for Engineers</u>		
	or		3
	<u>STAT 211 - Stat Methods I</u>		
	Total	16	15
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 120 - Mgmt &amp; Organ Behav</u>	3	
	<u>BSAD 178 - Quality Control</u>		
	or	3	
	<u>STAT 224 - Statistics for Qual &amp; Prod</u>		
	<u>EMGT 185 - Senior Project</u>	3	
	<u>ME 101 - Engineering Materials I</u>	3	
	HSS Electives	3	3
	<u>BSAD 270 - Quant Analysis; or</u>		
	<u>BSAD 272 - Discrete Simulation</u>		3

Engineering Management Elective <sup>2</sup>		6
ME Elective <sup>1</sup>		3
Total	15	15

**Total Credits:** 125

**Notes:**

1. ME electives: ME 200-level or higher.
2. Engineering Management electives: [BSAD 143](#), [BSAD 144](#), [BSAD 145](#), [BSAD 168](#), [BSAD 170](#), [BSAD 174](#), [BSAD 177](#), [BSAD 192](#); [EMGT 175](#); and [STAT 221](#), [STAT 224](#), [STAT 225](#), [STAT 229](#), [STAT 231](#), [STAT 233](#), [STAT 237](#), [STAT 253](#).

**Affiliations**

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Engineering Management Program](#).

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## Environmental Engineering (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Civil and Environmental Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">CE 003 - Intro to Civil &amp; Envir Engr</a>	2	
Physical Education Elective	1	
HSS Electives <sup>1</sup>	3	6
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
<a href="#">ENGR 002 - Graphical Communication</a>		2
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">MATH 121 - Calculus III</a>	4	
<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4	

Education	<u>CE 001 - Statics</u>	3	
• Graduate College	<u>CE 010 - Geomatics</u>	4	
• Honors College	<u>MATH 271 - Appl Math for Engr&amp;Scientists</u>		3
• School of Business Administration	<u>ME 012 - Dynamics</u>		3
• The Rubenstein School of Environment and Natural Resources	<u>CHEM 032 - Introductory Chemistry</u>		4
	<u>BIOL 001 - Principles of Biology</u> or <u>BIOL 002 - Principles of Biology</u>		4
	<u>CS 016 - Prog MATLAB Engineers&amp;Science</u> or <u>CE 011 - Computer-Based Tools for CE</u>		4
Policies and General Information	Total	15	18
Faculty and Administration	<b>JUNIOR</b>		
Catalogue Archives	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>CE 100 - Mechanics of Materials</u>	3	
	<u>CE 150 - Environmental Engineering</u>	3	
	<u>CE 160 - Hydraulics</u>	4	
	<u>STAT 143 - Statistics for Engineering</u>	3	
	HSS Elective <sup>1</sup>	3	◆
	<u>ME 040 - Thermodynamics and ME 044 - Heat Transfer</u>		4
	<u>CE 151 - Water &amp; Wastewater Engineering</u>		3
	<u>CE 154 - Environmental Anyl Practice</u>		2
	<u>CE 180 - Geotechnical Principles</u>		4
	Earth Science Elective <sup>2</sup>		4
	Total	16	17
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	Engineering Science or Science Elective <sup>2</sup>	3	◆
	<u>EE 100 - Electrical Engr Concepts</u>	4	
	Env. Professional Elective <sup>5</sup>	3	
	Physical Education Elective	1	
	Env.Design Elective <sup>4</sup>	3	3
	HSS Electives <sup>1</sup>	3	3
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3
	<u>CE 175 - Senior Design Project</u> <sup>6</sup>		3
	<u>CE 176 - Senior Design Seminar</u> <sup>6</sup>		1

Total	17	13
TOTAL CREDITS: 130		

### Notes:

1. Required Social Humanities: Student must select six from the approved Humanities courses listed in the catalog, one of which must also be from the approved Cultural Diversity courses listed in the College of Arts and Sciences section of the catalog. Students must also meet the 6/9 distribution rule.
2. Science/Earth Science: [GEOL 1](#), [GEOL 55](#), [GEOL 101](#), [GEOL 151](#), [GEOL 155](#), [GEOL 172](#), [GEOL 255](#), or [PSS 161](#).
3. Design Electives are [CE 151](#), [CE 175](#).
4. Env.Design: [CE 161](#), [CE 253](#), [CE 255](#), [CE 256](#), [CE 260](#), [CE 262](#), [CE 265](#), [CE 280](#), [CE 281](#), [CE 283](#)
5. Env. Professional Electives are all Design Electives plus [CE 191](#), [CE 192](#), any 200-level CE course.
6. Both [CE 175 - Senior Design Project](#), and [CE 176 - Senior Design Seminar](#) are required of all seniors.

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Civil and Environmental Engineering Department](#).

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Colleges and Schools > College of Engineering and Mathematics > Academic Offerings > Mathematics (B.S.)

## Mathematics (Bachelor of Science)

### Overview

In addition to the Bachelor of Science degree described here, the Department of Mathematics and Statistics also offers a Bachelor of Arts degree in the College of Arts and Sciences. A faculty advisor from Mathematics will assist students in determining which degree program best suits their individual needs and plans. Some of the career plans for which a well-designed major in mathematics can provide ideal preparation are highlighted below.

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mathematics and Statistics Requirements for the Bachelor of Science](#)

### Specific Requirements

### Recommendations for Major Courses

In consultation with their advisor, students should choose an area of interest within the mathematics major and plan a coherent program that addresses their interests in mathematics and its applications. This area might be one of those listed below, or it might be another area suggested by the student. As a guide, students interested in one of the areas would typically take at least three courses in that area, including all of the courses marked with an asterisk (\*). In addition, students should take courses from at least two other areas. Because of its centrality in mathematics, students should make sure that they take at least one course listed under Classical Mathematics. In following these recommendations, a course listed in more than one area is meant to be counted only once.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

## Policies and General Information

## Faculty and Administration

## Catalogue Archives

1. **Classical Mathematics**

Classical mathematics encompasses those areas having their roots in the great traditions of mathematical thought, such as geometry and topology, mathematical analysis, algebra and number theory, and discrete mathematics. Courses in this area include the following: [MATH 141](#), [MATH 151](#), [MATH 173](#), [MATH 236](#), [MATH 240](#), [MATH 241\\*](#), [MATH 242](#), [MATH 251\\*](#), [MATH 252](#), [MATH 255](#), [MATH 257](#), [MATH 260](#), [MATH 264](#), [MATH 273](#), [MATH 331](#), [MATH 353](#).

2. **Applied Mathematics**

Applied Mathematics involves the use of mathematical methods to investigate problems originating in the physical, biological, and social sciences, and engineering. Mathematical modeling, coupled with the development of mathematical and computational solution techniques, illuminates mechanisms which govern the problem and allows predictions to be made about the actual physical situation. Current research interests of the faculty include biomedical mathematics, fluid mechanics and hydrodynamic stability, asymptotics, and singular perturbation theory. Courses in this area include the following: [MATH 230\\*](#), [MATH 236](#), [MATH 237\\*](#), [MATH 238](#), [MATH 240](#), [MATH 272](#), [MATH 273](#), [MATH 274](#).

3. **Computational Mathematics**

Computational mathematics involves both the development of new computational techniques and the innovative modification and application of existing computational strategies to new contexts where they have not been previously employed. Intensive computation is central to the solution of many problems in areas such as applied mathematics, number theory, engineering, and the physical, biological and natural sciences. Computational mathematics is often interdisciplinary in nature, with algorithm development and implementation forming a bridge between underlying mathematical results and solution of the physical problem of interest. Courses in this area include the following: [MATH 173](#), [MATH 230](#), [MATH 237\\*](#), [MATH 238](#), [MATH 274](#), [STAT 201](#).

4. **Theory of Computing**

The mathematical theory of computing deals with the mathematical underpinnings allowing effective use of the computer as a tool in problem solving. Aspects of the theory of computing include: designing parallel computing strategies (graph theory), analyzing strengths and effectiveness of competing algorithms (analysis of algorithms), examining conditions which ensure that a problem can be solved by computational means (automata theory and computability), and rigorous analysis of run times (complexity theory). Courses in this area include the following: [MATH 173](#), [MATH 223](#), [MATH 224\\*](#), [MATH 243](#), [MATH 273](#), [MATH 325](#), [CS 346](#), [CS 353](#).

## 5. Mathematics of Management

Mathematics of Management involves the quantitative description and study of problems particularly concerned with the making of decisions in an organization. Problems are usually encountered in business, government, service industries, etc., and typically involve the allocation of resources, inventory control, product transportation, traffic control, assignment of personnel, and investment diversification. Courses in this area include the following: [MATH 173](#), [MATH 221](#)\*, [MATH 222](#), [MATH 230](#), [MATH 236](#), [MATH 273](#), [STAT 141](#) or [STAT 211](#), [STAT 151](#) or [MATH 207](#), [STAT 224](#), [STAT 241](#), [STAT 253](#).

## 6. Actuarial Mathematics

Actuaries use quantitative skills to address a variety of problems within business environments, and especially within the life insurance industry. Two professional organizations sponsor qualifying examinations and grant recognition to actuaries in the U.S. and Canada. A unique feature of the actuarial profession is that formal training is typically completed after graduation "on-the-job." Students planning an actuarial career can prepare for and complete some actuarial examinations prior to graduation. Several departmental courses serve as preparation for the examinations: [MATH 21](#), [MATH 22](#), [MATH 121](#), and [MATH 124](#) for the first examination; [STAT 141](#) or [STAT 211](#), {[STAT 151](#) or [MATH 207](#)}\*, and {[STAT 241](#) or [261](#)}\* for the second examination; [STAT 221](#) or [STAT 231](#), [STAT 225](#), and [STAT 253](#) for the third examination; [MATH 221](#), [MATH 222](#), and [STAT 252b](#) for the fourth examination: and [MATH 237](#) for the fifth examination.

## 7. Probability and Statistical Theory

Probabilistic reasoning is often a critical component of practical mathematical analysis or risk analysis and can usefully extend classical deterministic analysis to provide stochastic models. It also provides a basis for statistical theory, which is concerned with how inference can be drawn from real data in any of the social or physical sciences. Courses in this area include the following: [MATH 222](#), [MATH 241](#), [MATH 242](#), {[STAT 151](#) or [MATH 207](#)}\*, [STAT 241](#)\*, [STAT 252a](#), [STAT 252b](#), [STAT 261](#), [STAT 262](#), [STAT 270](#).

## Recommendations for Allied Field Courses

Students who select the Applied and Interdisciplinary Mathematics option are required to consult with their advisor in setting up their concentration in an Allied Field, as described under requirements B. Students who select the General Mathematics option should also discuss Allied Field courses with their advisor and choose ones which complement their mathematical interests. Students with certain mathematical interests are advised to emphasize an appropriate Allied Field as indicated below and take at least six hours in courses numbered 100 or above in that field.

### Applied Mathematics:



See [Allied Fields](#) under Mathematics and Statistics degree requirements.

### **Computational Mathematics:**

Allied Field (4) or (5).

### **Mathematics of Management:**

Allied Field (7). Students interested in Mathematics of Management are advised to include Economics [EC 11](#) and [EC 12](#) in their choice of Humanities and Social Sciences courses, and to include Business Administration [BSAD 60](#) and [BSAD 61](#) in their choice of Allied Field courses. Those wishing to minor in Business Administration should contact the School of Business Administration and also take Business Administration [BSAD 173](#) and two other courses chosen from Business Administration [BSAD 168](#), [BSAD 170](#), [BSAD 174](#), [177](#), [BSAD 178](#), and [BSAD 272](#).

### **Affiliations**

- Colleges and Schools: [College of Engineering and Mathematics](#), [College of Arts and Sciences](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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## Mathematics: Statistics (Bachelor of Science)

### Overview

Students receiving the B.S. in Mathematics may elect Statistics as their major. In addition, students receiving a B.A. degree in Arts and Sciences may concentrate in Statistics as a part of their Mathematics major. Statistics is a mathematical science extensively used in a wide variety of fields. Indeed, every discipline which gathers and interprets data uses statistical concepts and procedures to understand the information implicit in their data base. Statisticians become involved in efforts to solve real world problems by designing surveys and experimental plans, constructing and interpreting descriptive statistics, developing and applying statistical inference procedures, and developing and investigating stochastic models or computer simulations. To investigate new statistical procedures requires a knowledge of mathematics and computing as well as statistical theory. To apply concepts and procedures effectively also calls for an understanding of the field of application.

The curriculum is designed for students who plan to enter business, industry, or government as statisticians; to become professional actuaries; or to continue on to graduate school in statistics/biostatistics or another field where a quantitative ability can prove valuable (business, operations research, medicine, public health, demography, psychology, etc.). The courses and curricula are administered through the Statistics Program Steering Committee which includes faculty from Statistics, College of Medicine Medical Biostatistics and Bioinformatics Facility, Natural Resources, and the Agricultural Experiment Station. Students are encouraged to undertake special projects to gain experience in data analysis, design, and statistical computing. Also, experience can be gained with local industry and other organizations for those interested in quality control, industrial statistics, survey and market research or forecasting, for example.

Statistics majors may also minor in Mathematics by completing [MATH 021](#), [MATH 022](#), [MATH 052](#) or [MATH 121](#), and 9 more credits in mathematics at the 100-level or above.

## Education

Since Statistics majors normally take MATH 021, MATH 022, MATH 121 and MATH 124, they just need two more mathematics courses at the 100-level or above.

## • Graduate College

Students earning the B.S. in Mathematics may earn a double major in Mathematics and Statistics by meeting the requirements of the Statistics major and earning an additional 18 credits in Mathematics, to include one of [MATH 141](#), [MATH 241](#), [MATH 151](#) or [MATH 251](#).

## • Honors College

## • School of Business Administration

Further details on the Statistics major and minor curricula may be obtained from the Director of the Statistics Program. The Handbook for Mathematics and Statistics majors, available from the Mathematics and Statistics department office, also provides a wealth of useful information.

## • The Rubenstein School of Environment and Natural Resources

## Policies and General Information

**General Requirements**

- [Requirements for All Undergraduate Degree Students](#)
- [Mathematics and Statistics Requirements for the Bachelor of Science](#)

## Faculty and Administration

**Specific Requirements**

## Catalogue Archives

**Premedical Concentration in Statistics**

Each student electing the Premedical Concentration in Statistics will fulfill the general requirements for the Statistics major. Statistics 200 is recommended as an important elective for students interested in medicine or allied health. In addition, the premedical concentration should include as a minimum two years of chemistry with laboratory ([CHEM 031](#), [CHEM 032](#), or [CHEM 035](#), [CHEM 036](#), [CHEM 037](#), [CHEM 038](#), and [CHEM 141](#), [CHEM 142](#)), at least one year of physics with laboratory ([PHYS 021](#), [PHYS 031](#), [PHYS 022](#), [PHYS 042](#) or [PHYS 021](#), [PHYS 031](#), [PHYS 125](#)), and at least one year of biology with laboratory ([BIOL 001](#), [BIOL 002](#)). Exposure to medical research problems may be provided through supervised experiences in the College of Medicine Medical Biostatistics and Bioinformatics Facility.

**Concentration in Quality**

Students interested in methods of quality control and quality improvement are encouraged to develop a concentration in quality. [STAT 224](#): Statistics in Quality and Productivity is regularly offered. Related courses to consider include Business Administration 178 and others in the Production and Operations Management and Quantitative Methods area of Business Administration. Project experience in industrial quality control or in health care quality can be gained in [STAT 191](#) and [STAT 281](#), or STAT 293-294.

**Affiliations**

- Colleges and Schools: [College of Engineering and Mathematics](#), [College of Arts and Sciences](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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## Mechanical Engineering: Biomedical (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mechanical Engineering Requirements](#)
- [Engineering Curricula](#)

### Specific Requirements

### Curriculum

tr>

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">MATH 021 - Calculus I</a>	4	
HSS Electives <sup>1</sup>	3	3
Physical Education Elective	1	1
<a href="#">ME 001 - First-Year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	15
SOPHOMORE		

Education	Course	Term	
		Fall	Spring
• Graduate College	<a href="#">ME 040 - Thermodynamics</a>	3	
• Honors College	<a href="#">CE 001 - Statics</a>	3	
	<a href="#">MATH 121 - Calculus III</a>	4	
• School of Business Administration	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4	
	<a href="#">PHYS 022 - Introductory Lab II</a>	1	
• The Rubenstein School of Environment and Natural Resources	HSS Electives <sup>1</sup>	3	
	<a href="#">ME 012 - Dynamics</a>		3
	<a href="#">ME 014 - Mechanics of Solids</a>		3
	<a href="#">ME 042 - Engineering Thermodynamics</a>		3
	<a href="#">ME 082 - Mech Engineering Lab I</a>		3
Policies and General Information	<a href="#">MATH 124 - Linear Algebra</a>		3
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3
Faculty and Administration	Total	18	18
<b>JUNIOR</b>			
Catalogue Archives	Course	Term	
		Fall	Spring
	<a href="#">ME 101 - Engineering Materials I</a>	3	
	<a href="#">ME 123 - Mechanical Engineering Lab II</a>	2	
	<a href="#">ME 143 - Fluid Mechanics</a>	3	
	<a href="#">EE 100 - Electrical Engr Concepts</a>	4	
	<a href="#">MPBP 019 - UG Human Anatomy &amp; Physiology</a>	4	
	<a href="#">ME 124 - Mechanical Engineering Lab III</a>		2
	<a href="#">ME 144 - Heat Transfer</a>		3
	[[course:me 171 ME 171 - Design of Elements]]		3
	<a href="#">EE 101 - Digital Control w/Embedded Sys</a>		4
	<a href="#">MPBP 020 - UG Human Anatomy &amp; Physiology</a>		4
	Total	16	16
<b>SENIOR</b>			
	Course	Term	
		Fall	Spring
	<a href="#">ME 111 - System Dynamics</a>	3	
	<a href="#">ME 161 - Manufacturing Engineering I</a>	3	
	<a href="#">ME 183 - Mechanical Engineering Lab IV</a>	3	
	<a href="#">ME 185 - Senior Project</a>	1	
	<a href="#">STAT 143 - Statistics for Engineering</a>	3	
	<a href="#">ME 207 - Biomechanics I</a>	3	
	<a href="#">ME 186 - Senior Project</a>		2
	<a href="#">ME 20X<sup>3</sup> - Biomechanics</a>		3

ME Design Elective <sup>2</sup>		3
HSS Electives <sup>1</sup>		6
Total	16	14
TOTAL CREDITS: 130		

### Notes:

1. HSS Electives (15 credits): Students must select one HSS course from the list of approved race and culture courses.
2. ME Design Electives: [ME 162](#), [ME 172](#), [ME 265](#).
3. [ME 208](#) or [ME 209](#).

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Mechanical Engineering Department](#).

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## Mechanical Engineering: General (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mechanical Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">MATH 021 - Calculus I</a>	4	
HSS Electives <sup>1</sup>	3	3
Physical Education Elective	1	1
<a href="#">ME 001 - First-Year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	15
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">ME 040 - Thermodynamics</a>	3	

Education	<a href="#">CE 001 - Statics</a>	3		
• Graduate College	<a href="#">MATH 121 - Calculus III</a>	4		
	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4		
• Honors College	<a href="#">PHYS 022 - Introductory Lab II</a>	1		
• School of Business Administration	<a href="#">ME 012 - Dynamics</a>		3	
	<a href="#">ME 014 - Mechanics of Solids</a>		3	
	<a href="#">ME 042 - Engineering Thermodynamics</a>		3	
• The Rubenstein School of Environment and Natural Resources	<a href="#">ME 082 - Mech Engineering Lab I</a>		3	
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3	
	HSS Electives <sup>1</sup>		3	
	Total	15	18	
Policies and General Information	<b>JUNIOR</b>			
	<b>Course</b>	<b>Term</b>		
		<b>Fall</b>	<b>Spring</b>	
Faculty and Administration	<a href="#">ME 101 - Engineering Materials I</a>	3		
	[[course:me 111 ME 111 - System Dynamics]]	3		
Catalogue Archives	<a href="#">ME 123 - Mechanical Engineering Lab II</a>	2		
	<a href="#">ME 143 - Fluid Mechanics</a>	3		
	<a href="#">EE 100 - Electrical Engr Concepts</a>	4		
	<a href="#">MATH 124 - Linear Algebra</a>	3		
	<a href="#">ME 124 - Mechanical Engineering Lab III</a>		2	
	<a href="#">ME 144 - Heat Transfer</a>		3	
	[[course:me 171 ME 171 - Design of Elements]]		3	
	<a href="#">EE 101 - Digital Control w/Embedded Sys</a>		4	
	<a href="#">STAT 143 - Statistics for Engineering</a>		3	
	Total	18	15	
	Policies and General Information	<b>SENIOR</b>		
<b>Course</b>		<b>Term</b>		
		<b>Fall</b>	<b>Spring</b>	
Catalogue Archives	<a href="#">ME 161 - Manufacturing Engineering I</a>	3		
	<a href="#">ME 183 - Mechanical Engineering Lab IV</a>	3		
	<a href="#">ME 185 - Senior Project</a>	1		
	ME Electives <sup>2</sup>	3	3	
	Technical Electives <sup>3</sup>	3	3	
	HSS Electives <sup>1</sup>	3	3	
	<a href="#">ME 186 - Senior Project</a>		2	
	ME Design Elective <sup>4</sup>		3	
	Total	16	14	
	TOTAL CREDITS: 128			



### Notes:

1. HSS Electives (15 credits): Students must select one HSS course from the list of approved race and culture courses.
2. ME Electives: A 200-level course or higher.
3. Technical Electives: Any 100-level or higher courses in EM and BSAD (except STAT 111 and ME 114); CS 14, CS 16, CS 21, CS 26; NR with approval of your advisor.
4. ME Design Electives: ME 162, ME 172, ME 265.

### Affiliations

- Colleges and Schools: College of Engineering and Mathematics.
- Departments and Programs: Mechanical Engineering Department.

[Location]

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## Mechanical Engineering: Premedical (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mechanical Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">MATH 021 - Calculus I</a>	4	
Physical Education Elective	1	
HSS Electives <sup>1</sup>	3	3
<a href="#">ME 001 - First-Year Design Experience</a>		2
<a href="#">CHEM 032 - Introductory Chemistry</a>		4
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	18
SOPHOMORE		
Course	Term	
	Fall	Spring

Education	<a href="#">ME 040 - Thermodynamics</a>	3	
	<a href="#">CE 001 - Statics</a>	3	
• Graduate College	<a href="#">MATH 121 - Calculus III</a>	4	
• Honors College	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4	
	<a href="#">PHYS 022 - Introductory Lab II</a>	1	
• School of Business Administration	HSS Electives <sup>1</sup>	3	
	<a href="#">ME 012 - Dynamics</a>		3
• The Rubenstein School of Environment and Natural Resources	<a href="#">ME 014 - Mechanics of Solids</a>		3
	<a href="#">ME 042 - Engineering Thermodynamics</a>		3
	<a href="#">ME 082 - Mech Engineering Lab I</a>		3
	<a href="#">MATH 124 - Linear Algebra</a>		3
Policies and General Information	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3
	Total	18	18
<b>JUNIOR</b>			
Faculty and Administration	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
Catalogue Archives	<a href="#">ME 101 - Engineering Materials I</a>	3	
	<a href="#">ME 123 - Mechanical Engineering Lab II</a>	2	
	<a href="#">ME 143 - Fluid Mechanics</a>	3	
	<a href="#">BIOL 001 - Principles of Biology</a>	4	
	<a href="#">CHEM 141 - Organic Chemistry</a>	4	
	<a href="#">ME 124 - Mechanical Engineering Lab III</a>		2
	<a href="#">ME 144 - Heat Transfer</a>		3
	[[course:me 171 ME 171 - Design of Elements]]		3
	<a href="#">BIOL 002 - Principles of Biology</a>		4
	<a href="#">CHEM 142 - Organic Chemistry</a>		4
	Physical Education Elective		1
	Total	16	17
<b>SENIOR</b>			
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">ME 111 - System Dynamics</a>	3	
	<a href="#">ME 161 - Manufacturing Engineering I</a>	3	
	<a href="#">ME 183 - Mechanical Engineering Lab IV</a>	3	
	<a href="#">ME 185 - Senior Project</a>	1	
	<a href="#">EE 100 - Electrical Engr Concepts</a>	4	
	<a href="#">STAT 143 - Statistics for Engineering</a>	3	
	<a href="#">ME 186 - Senior Project</a>		2
	<a href="#">EE 101 - Digital Control w/Embedded Sys</a>		4
	ME Design Elective <sup>2</sup>		3

HSS Electives <sup>1</sup>		6
Total	17	15
TOTAL CREDITS: 136		

### Notes:

1. HSS Electives (15 credits): Students must select one HSS course from the list of approved race and culture courses.
2. ME Design Electives: [ME 162](#), [ME 172](#), [ME 265](#).

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Mechanical Engineering Department](#).

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## Civil and Environmental Engineering Department

### Contact Information

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Civil and Environmental Engineering  
Department  
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Burlington, VT 05405-0156

Phone: (802) 656-3800

Fax: (802) 656-8446

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[Web Site](#)

### Overview

Civil and environmental engineers plan, design, construct, and manage the built environment or infrastructure that serves people. They design and build dams, buildings, bridges, roads, rail lines, airports, ski resorts, space stations, irrigation systems, water and sewage treatment plants, harbors, and much more. They find ways to clean the atmosphere, treat contaminated environments, and design energy efficient structures, improving the quality of our daily lives now and for the future.

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).

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## Civil and Environmental Engineering Department: Academic Offerings

- [Civil Engineering: Environmental \(B.S.\)](#)
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## Civil Engineering: Environmental (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Civil and Environmental Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CE 003 - Intro to Civil &amp; Envir Engr</a>	2	
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
Physical Education Elective	1	
HSS Electives <sup>1</sup>	3	6
<a href="#">ENGR 002 - Graphical Communication</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">CE 001 - Statics</a>	3	



Education	<u>CE 010 - Geomatics</u>	4	
• Graduate College	<u>MATH 121 - Calculus III</u>	4	
	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>	4	
• Honors College	<u>STAT 143 - Statistics for Engineering</u>	3	
• School of Business Administration	<u>CS 016 - Prog MATLAB Engineers&amp;Science</u> or <u>CE 011 - Computer-Based Tools for CE</u>		4
	<u>CHEM 032 - Introductory Chemistry</u> or <u>BIOL 002 - Principles of Biology</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>MATH 271 - Appl Math for Engr&amp;Scientists</u>		3
	<u>ME 012 - Dynamics</u>		3
Policies and General Information	HSS Elective <sup>1</sup>		3
	Total	18	17
Faculty and Administration	<b>JUNIOR</b>		
Catalogue Archives	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>CE 100 - Mechanics of Materials</u>	3	
	<u>CE 140 - Transportation</u>	3	
	<u>CE 150 - Environmental Engineering</u>	3	
	<u>CE 160 - Hydraulics</u>	4	
	HSS Elective <sup>1</sup>	3	
	<u>CE 101 - Materials Testing</u>		2
	<u>CE 151 - Water &amp; Wastewater Engineering</u>		3
	<u>CE 154 - Environmental Anyl Practice</u>		2
	<u>CE 170 - Structural Analysis I</u>		4
	<u>CE 180 - Geotechnical Principles</u>		4
	Total	16	15
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>EE 100 - Electrical Engr Concepts</u>	4	
	Professional Elective <sup>3</sup>	3	
	Physical Education	1	
	HSS Elective <sup>1</sup>	3	
	Design Elective <sup>2</sup>	3	3
	<u>CE 172 - Structural Steel Design</u> or <u>CE 173 - Reinforced Concrete</u>	(3)	(3)
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3

<u>CE 175 - Senior Design Project</u> <sup>4</sup>		3
<u>CE 176 - Senior Design Seminar</u> <sup>4</sup>		1
<u>ME 040 - Thermodynamics</u> <sup>4</sup>		3
<u>ME 044 - Heat Transfer</u> <sup>4</sup>		1
Total	14 or 17	14 or 17
TOTAL CREDITS: 131		

### Notes:

1. Required Social Humanities: Student must select six from the approved Humanities courses listed in the catalog, one of which must also be from the approved Cultural Diversity courses listed in the College of Arts and Sciences section of the catalog. Students must also meet the 6/9 distribution rule.
2. Design Electives are CE 142, CE 161, CE 241, CE 251, CE 253, CE 255, CE 256, CE 260, CE 261, CE 265, CE 280, CE 281, CE 283. Env.Design: CE 161, CE 253, CE 255, CE 256, CE 260, CE 262, CE 265, CE 280, CE 281, CE 283.
3. Professional Electives are all Design Electives plus CE 191, CE 192, any 200-level CE course.
4. Both CE 175 - Senior Design Project, and CE 176 - Senior Design Seminar are required of all seniors.

### Affiliations

- Colleges and Schools:College of Engineering and Mathematics.
- Departments and Programs:Civil and Environmental Engineering Department.

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## Civil Engineering: General (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Civil and Environmental Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CE 003 - Intro to Civil &amp; Envir Engr</a>	2	
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
Physical Education Elective	1	
HSS Electives <sup>1</sup>	3	6
<a href="#">ENGR 002 - Graphical Communication</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">CE 001 - Statics</a>	3	

Education	<u>CE 010 - Geomatics</u>	4	
	<u>MATH 121 - Calculus III</u>	4	
• Graduate College	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>	4	
• Honors College	<u>STAT 143 - Statistics for Engineering</u>	3	
• School of Business Administration	<u>CS 016 - Prog MATLAB Engineers&amp;Science</u> or <u>CE 011 - Computer-Based Tools for CE</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>MATH 271 - Appl Math for Engr&amp;Scientists</u>		3
	<u>ME 012 - Dynamics</u>		3
	HSS Elective <sup>1</sup>		3
	Science Elective <sup>2</sup>		4
Policies and General Information	Total	18	17
<b>JUNIOR</b>			
Faculty and Administration	<b>Course</b>	<b>Term</b>	
Catalogue Archives		<b>Fall</b>	<b>Spring</b>
	<u>CE 100 - Mechanics of Materials</u>	3	
	<u>CE 140 - Transportation</u>	3	
	<u>CE 150 - Environmental Engineering</u>	3	
	<u>CE 160 - Hydraulics</u>	4	
	HSS Elective <sup>1</sup>	3	
	<u>CE 101 - Materials Testing</u>		2
	<u>CE 151 - Water &amp; Wastewater Engineering</u>		3
	<u>CE 170 - Structural Analysis I</u>		4
	<u>CE 180 - Geotechnical Principles</u>		4
	<u>ME 040 - Thermodynamics</u>		3
	<u>ME 044 - Heat Transfer</u>		1
	Total	16	17
<b>SENIOR</b>			
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>CE 171 - Structural Analysis II</u>	3	
	Physical Education	1	
	<u>CE 172 - Structural Steel Design</u> <sup>5</sup>	3	
	Professional Elective <sup>4</sup>	3	
	<u>EE 100 - Electrical Engr Concepts</u>	4	
	HSS Elective <sup>1</sup>	3	
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3
	<u>CE 173 - Reinforced Concrete</u> <sup>5</sup>		3
	<u>CE 175 - Senior Design Project</u> <sup>6</sup>		3

<u>CE 176 - Senior Design Seminar</u> <sup>6</sup>		1
Design Elective <sup>3</sup>		3
Total	17	13
TOTAL CREDITS: 132		

### Notes:

1. Required Social Humanities: Student must select six from the approved Humanities courses listed in the catalog, one of which must also be from the approved Cultural Diversity courses listed in the College of Arts and Sciences section of the catalog. Students must also meet the 6/9 distribution rule.
2. Science Elective must be a 4-credit course, with lab, i.e. Geology 1.
3. Design Electives are CE 142, CE 161, CE 241, CE 251, CE 253, CE 255, CE 256, CE 260, CE 261, CE 265, CE 280, CE 281, CE 283. Env.Design: CE 161, CE 253, CE 255, CE 256, CE 260, CE 262, CE 265, CE 280, CE 281, CE 283.
4. Professional Electives are all Design Electives plus CE 191, CE 192, any 200-level CE course.
5. General Option students must take both CE 172 and CE 173.
6. Both CE 175 - Senior Design Project, and CE 176 - Senior Design Seminar are required of all seniors.

### Affiliations

- Colleges and Schools:College of Engineering and Mathematics.
- Departments and Programs:Civil and Environmental Engineering Department.

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## Environmental Engineering (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Civil and Environmental Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">CE 003 - Intro to Civil &amp; Envir Engr</a>	2	
Physical Education Elective	1	
HSS Electives <sup>1</sup>	3	6
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
<a href="#">ENGR 002 - Graphical Communication</a>		2
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">MATH 121 - Calculus III</a>	4	

Education	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>	4	
• Graduate College	<u>CE 001 - Statics</u>	3	
	<u>CE 010 - Geomatics</u>	4	
• Honors College	<u>MATH 271 - Appl Math for Engr&amp;Scientists</u>		3
• School of Business Administration	<u>ME 012 - Dynamics</u>		3
	<u>CHEM 032 - Introductory Chemistry</u>		4
	<u>BIOL 001 - Principles of Biology</u> or <u>BIOL 002 - Principles of Biology</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>CS 016 - Prog MATLAB Engineers&amp;Science</u> or <u>CE 011 - Computer-Based Tools for CE</u>		4
	Total	15	18
Policies and General Information	<b>JUNIOR</b>		
Faculty and Administration	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
Catalogue Archives	<u>CE 100 - Mechanics of Materials</u>	3	
	<u>CE 150 - Environmental Engineering</u>	3	
	<u>CE 160 - Hydraulics</u>	4	
	<u>STAT 143 - Statistics for Engineering</u>	3	
	HSS Elective <sup>1</sup>	3	◆
	<u>ME 040 - Thermodynamics and ME 044 - Heat Transfer</u>		4
	<u>CE 151 - Water &amp; Wastewater Engineering</u>		3
	<u>CE 154 - Environmental Anyl Practice</u>		2
	<u>CE 180 - Geotechnical Principles</u>		4
	Earth Science Elective <sup>2</sup>		4
	Total	16	17
	<b>SENIOR</b>		
		<b>Course</b>	<b>Term</b>
<b>Fall</b>			<b>Spring</b>
	Engineering Science or Science Elective <sup>2</sup>	3	◆
	<u>EE 100 - Electrical Engr Concepts</u>	4	
	Env. Professional Elective <sup>5</sup>	3	
	Physical Education Elective	1	
	Env.Design Elective <sup>4</sup>	3	3
	HSS Electives <sup>1</sup>	3	3
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3
	<u>CE 175 - Senior Design Project<sup>6</sup></u>		3
	6		

<u>CE 176 - Senior Design Seminar</u>		1
Total	17	13
TOTAL CREDITS: 130		

**Notes:**

1. Required Social Humanities: Student must select six from the approved Humanities courses listed in the catalog, one of which must also be from the approved Cultural Diversity courses listed in the College of Arts and Sciences section of the catalog. Students must also meet the 6/9 distribution rule.
2. Science/Earth Science: GEOL 1, GEOL 55, GEOL 101, GEOL 151, GEOL 155, GEOL 172, GEOL 255, or PSS 161.
3. Design Electives are CE 151, CE 175.
4. Env.Design: CE 161, CE 253, CE 255, CE 256, CE 260, CE 262, CE 265, CE 280, CE 281, CE 283
5. Env. Professional Electives are all Design Electives plus CE 191, CE 192, any 200-level CE course.
6. Both CE 175 - Senior Design Project, and CE 176 - Senior Design Seminar are required of all seniors.

**Affiliations**

- Colleges and Schools:College of Engineering and Mathematics.
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## Civil and Environmental Engineering Requirements

The Department offers two undergraduate degrees; a B.S. in Civil Engineering (both general and environmental concentrations available), and a B.S. in Environmental Engineering. The curricula provide a strong foundation in mathematics, and physical, natural and engineering sciences. Instruction in civil engineering disciplines includes structural engineering, soil mechanics, hydraulics, environmental engineering, and transportation engineering. Instruction in environmental engineering includes surface and groundwater hydrology, water and wastewater engineering, ecological engineering, and air pollution.

The B.S. in Civil Engineering, general option, requires a minimum of 132 credits.  
 The B.S. in Civil Engineering, environmental option, requires a minimum of 132 credits.  
 The B.S. in Environmental Engineering requires a minimum of 130 credits.

A civil or environmental engineering degree from the University of Vermont is excellent preparation for immediate employment in engineering. Additionally, many of our graduates continue their education in graduate engineering programs, or graduate programs in business, law, and medicine.

Engineering design is developed and integrated in each student's program and culminates in a required major design experience which draws upon prior course work and which focuses on the issues and expectations of professional practice. The department also undertakes numerous activities aimed at enhancing the undergraduate educational experience at UVM. Special emphasis has been made to provide laboratory and research experiences for undergraduates, to increase the Information Technology (IT) content of the curricula, and to update the course contents to reflect the changes in our profession.

No more than three grades of D, D+, or D- will be acceptable in all required courses in engineering and engineering science including design and professional electives as

Education

stated in the curricula for the junior and senior years.

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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## Courses in Civil & Environmental Engr

### CE 001 - Statics

Fundamentals of statics; composition and resolution of forces; the analysis of force systems in two and three dimensions; and centroids and moments of inertia.

Prerequisite: Math. 22.

Credits: 3.

### CE 002 - CE Graphic Design

Computer-aided and hand generation of: geometric shapes, dimensioning, pipe drafting, foundations and structures, survey plots, graphs and charts, topography, and highway geometry.

Credits: 3.

### CE 003 - Intro to Civil & Envir Engr

Introduces Civil and Environmental Engineering through hands-on-design, group projects, inquiry-based learning, systems thinking, critical thinking, and computational exercises.

Credits: 2.

### CE 010 - Geomatics

An introduction to surveying including distance and angle measurements, leveling, traverse surveys, error propagation, topographical mapping, global positioning systems (GPS), and geographic information systems (GIS). Pre/co-requisites: CEE Sophomore standing, or permission of instructor.

Credits: 4.

### CE 011 - MATLAB for Solving Engr Prblms

Engineering problem solving, computer programming, standard numeric computation, visualization tools, and systems thinking using MATLAB.

Prerequisite: Concurrent enrollment in MATH 020 or MATH 022.

Education

Credits: 4.

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**CE 012 - Geomatics Lab**

Laboratory exercises in surveying applications: distance, angle, elevation, traverse, topography, global positioning systems (GPS), and geographic information systems (GIS). Pre/co-requisites: CE 10.

Credits: 1.

**CE 015 - Pollution & Solutions**

Introduction to environmental issues and potential solutions. Emphasis on problem solving: description, decomposition, research, analysis, and performance evaluation.

Credits: 3.

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**CE 100 - Mechanics of Materials**

(Same as Mechanical Engineering 14.) Stress, strain, temperature relationships, torsion, bending stresses, and deflections. Columns, joints, thin-walled cylinders. Combined stresses and Mohr's circle. Prerequisites: CE 1.

Credits: 3.

**CE 101 - Materials Testing**

Experimental stress analysis methods; fundamental properties of metals, plastics, and wood; effects of size, shape, method, speed of loading, and strain history on these properties. Prerequisite: 100.

Credits: 2.

**CE 125 - Eng Econ & Decision Analyses**

Comparing engineering alternatives; economic evaluations including costs, returns, taxes, and depreciation; project optimization with linear/non-linear models; scheduling; risk and reliability analyses by simulation. Prerequisite: MATH 021.

Credits: 3.

**CE 140 - Transportation**

Analysis of transportation systems; technological characteristics; the transportation planning process and techniques of travel modeling and forecasting for both urban and rural areas. Prerequisite: CE 010; Junior standing in CE, or Instructor permission.

Credits: 3.

**CE 142 - Structural Roadway Design**

Properties of construction materials; design of mixes; analyses of pavement performance; structural design of pavements; highway earthwork, drainage, and construction techniques. Prerequisites: 141, 180.

Credits: 3.

**CE 150 - Environmental Engineering**

Basic phenomena and theoretical principles underlying water supply, air and water pollution control, and industrial hygiene. Prerequisite: CHEM 031 or CHEM 025, MATH 022.

Credits: 3.

**CE 151 - Water & Wastewater Engineering**

Design of treatment systems for water supply, groundwater remediation, domestic and hazardous wastewater, sewer design; semester-long design projects; ethics; environmental health impacts; governmental regulations. Prerequisites: CE 150, 160.

Credits: 3.

**CE 154 - Environmental Analy Practice**

Analytical procedures used in measuring environmental parameters (includes BOD, COD, Alkalinity, Coliform). Fundamental methods applied to actual waste samples and subsequent data analysis. Prerequisites: 150; Chemistry 31.

Credits: 2.

**CE 160 - Hydraulics**

Mechanics of incompressible fluids; flow meters; flow in closed conduits and open channels; elements of hydraulic machinery; laboratory studies of flow and hydraulic machinery. Prerequisite: ME 12

Credits: 4.

**CE 161 - Water Resource Engineer Design**

Formulation of water resource projects; development of design methods for: surface water, risk, storage, and control structures, open channels, and drainage systems; design project. Prerequisite: CE 160.

Credits: 3.

**CE 170 - Structural Analysis I**

Analysis of statically determinate beams, frames, and trusses; expected loads, reactions; influence lines; moving loads; geometric methods for displacement calculations; introduction to matrix analysis for trusses. Prerequisites: 100, Computer Science 16.

Credits: 4.

**CE 171 - Structural Analysis II**

Statically indeterminate structural analysis by consistent deformation and stiffness methods; determinations of deflections by energy methods; matrix analysis for frame structures and computer-aided analysis. Prerequisite: CE 170.

Credits: 3.

**CE 172 - Structural Steel Design**

Theory and design of steel structures including flexural members, axially loaded members and combined stress members; design of composite members; and plastic analysis and design. Pre/co-requisite: CE 170.

Credits: 3.

**CE 173 - Reinforced Concrete**

Analysis of stresses in plain and reinforced concrete members; design of reinforced concrete structures; and theory of prestressed concrete. Prerequisite:

CE 170.

Credits: 3.

**CE 175 - Senior Design Project**

Comprehensive design projects will integrate the multiple areas of specialization in civil engineering. Student teams will prepare and present designs to professional review panels. Prerequisite: Senior standing in CE.

Credits: 3.

**CE 176 - Senior Design Seminar**

Guest lecturers from private practice discussing professional issues; integration of multidiscipline teams from student design projects; and oral and written presentations. Co-requisite: One design elective; Senior standing.

Credits: 1.

**CE 180 - Geotechnical Principles**

Characteristics and classification of soils; physical, mechanical and hydraulic properties of soils; seepage; the effective stress principle; stress distribution, consolidation, settlement; shear strength; laboratory testing. Prerequisite: CE 100.

Credits: 4.

**CE 191 - Special Projects**

Investigation of special topic under guidance of faculty member. Library investigations, unique design problems, laboratory and field studies. Prerequisite: Senior standing; Department permission.

Credits: 3.

**CE 192 - Special Projects**

Investigation of special topic under guidance of faculty member. Library investigations, unique design problems, laboratory and field studies. Prerequisite: Senior standing; Department permission.

Credits: 3.

**CE 193 - College Honors**

Credits: 1-6.

**CE 194 - College Honors**

Credits: 1-6.

**CE 195 - Special Topics**

Prerequisite: Senior standing in Civil Engineering.

Credits: 1-6.

**CE 210 - Airphoto Interpretation**

Aerial photographic interpretation: principles of stereoscopic viewing, identification of airphoto features related to landform, vegetation, drainage, soils, topography use of airphoto interpretation in soil identification.

Credits: 3.

**CE 220 - Intro to Finite Element Anyl**

Introduction to finite element analysis: applications in solid mechanics, hydrodynamics, and transport: analysis of model behavior: Fourier analysis. Computer project required. Prerequisites: computer programming, linear algebra, or permission of Instructor.

Credits: 3.

**CE 226 - Civil Engineering Systems Anyl**

Linear programming, dynamic programming, network analysis, simulation; applications to scheduling, resource allocation, routing, and a variety of civil engineering problems. Prerequisite: Senior or graduate standing in CEE or instructor permission.

Credits: 3.

**CE 241 - Traffic Operations & Design**

Advanced concepts of traffic engineering and capacity analysis; highway and intersection capacity; traffic analysis and simulation software; design and application of controls. Prerequisite: CE 140 or permission of instructor.

Credits: 3.

**CE 245 - Intelligent Transportation Sys**

Introduction to Intelligent Transportation Systems (ITS), ITS user services, ITS applications, the National ITS architecture, ITS evaluation, and ITS standards. Pre/co-requisites: CE 140 or equivalent, instructor permission.

Credits: 3.

**CE 248 - Hazardous Waste Mgmt Engr**

Management of hazardous and industrial waste from generation to disposal; emphasis on pollution prevention within industry; waste minimization, recovery, reuse, treatment technologies; environmental regulations, risk assessment, costs and public policy; group projects. Prerequisite: Senior standing in Engineering or sciences.

Credits: 3.

**CE 249 - Solid Wastes**

Significance of solid wastes from municipal, industrial, agricultural, mining; optimization and design of collection, disposal, recycle systems; sanitary landfills, incineration, composting, material recovery. Prerequisites: Chemistry 25, Physics 25. UG only.

Credits: 3.

**CE 251 - Envr Facility Dsgn/Wastewater**

Design of wastewater conveyance and treatment facilities; sewage treatment plant design; equipment selection. Prerequisite: CE 151.

Credits: 3.

**CE 252 - Industrial Hygiene**

Industrial hygiene problems; effects of pollutants on health; threshold limit values;

emphasis on the engineering evaluation of hazard and control techniques.

Prerequisite: CHEM 031 or CHEM 025; PHYS 031.

Credits: 3.

### **CE 253 - Air Pollution**

Sources of air pollution, methods of measurement, standards, transport theory and control techniques used. Emphasis on source measurement and contaminant control design. Prerequisites: Chem 31 or 25, Physics 31.

Credits: 3.

### **CE 254 - Environmental Quantitative Anyl**

Chemistry and microbiology of water quality management; diffusion, equilibria, reaction kinetics, acids and bases, colloids, enzymes, bacterial physiology, pollution indicator organisms; laboratories demonstrate standard techniques.

Prerequisites: Chemistry 31 or 25, Math. 22.

Credits: 4.

### **CE 255 - Phys/Chem Proc Water/Wstwater**

Theory of physical/chemical processes for treating waters and wastewaters; reactor dynamics, mass transfer, adsorption, ion exchange, precipitation. Pre/co-requisites: CE 151, CE 154, or permission of Instructor.

Credits: 3.

### **CE 256 - Biol Proc Water/Wastewater Tr**

Theory and application of biological processes for treating industrial and domestic wastewaters and contaminated ground water; microbiological considerations; aerobic and anaerobic processes; reactor design, in-situ bioremediation; bench-scale and pilot-scale experimentation. Prerequisites: 151 and 154 or equivalent or permission of instructor.

Credits: 3.

### **CE 259 - Msmt of Airborne Contaminants**

Quantifying airborne contaminants from processes and ambient levels.

Laboratories demonstrate calibration and measurement, stack sampling and ambient air monitoring, and specific contaminant generation and measurement.

Prerequisite: CE 252 or CE 253.

Credits: 3.

### **CE 260 - Hydrology**

Theory of precipitation, run-off, infiltration, and ground water; precipitation and run-off data; and application of data for use in development of water resources.

Prerequisites: 160 or permission of instructor.

Credits: 3.

### **CE 261 - Open Channel Flow**

Application of the laws of fluid mechanics to flow in open channels, design of channels and transition structures, modeling, uniform and gradually-varied flows.

Prerequisite: CE 160.



Credits: 3.

**CE 265 - Ground Water Hydrology**

Principles of ground water hydraulics, well characteristics, aquifers, and use of numerical methods to solve ground water flow problems. Prerequisites: Math 121 or instructor's permission.

Credits: 3.

**CE 272 - Structural Dynamics**

Vibrations, matrices, earthquake engineering, stability and wave propagation.

Prerequisites: Senior or graduate standing in Engineering or physical sciences, or instructor permission. (Same as ME 272).

Credits: 3.

**CE 280 - Applied Soil Mechanics**

Use of soil mechanics in evaluation of building foundations, braced excavations, earth structures; lateral earth pressures, pile foundations, caisson foundations, slope stability, and construction problems. Prerequisite: CE 180.

Credits: 3.

**CE 281 - Geotechnical Design**

Subsurface explorations; bearing capacity, lateral earth pressures, slope stability; analysis and design of shallow and deep foundations, retaining structures, and slopes. Pre/co-requisite: CE 180.

Credits: 3.

**CE 282 - Engr Properties of Soils**

Study of soil properties influencing engineering behavior of soils: soil mineralogy, physiochemical concepts, plasticity properties, permeability, and compaction: laboratory study of soil index properties, permeability, compaction tests.

Prerequisite: CE 180 or equivalent.

Credits: 3.

**CE 283 - Designing with Geosynthetics**

Geotextiles, geogrids, geonets, geomembranes, geocomposites, geopipes.

Design for separation, reinforcement, filtration, drainage, erosion, control, liners.

Applications in transportation, drainage, solid waste containment. Material testing, behavior. Prerequisite: CE 180.

Credits: 3.

**CE 290 - Engineering Investigation**

Independent investigation of a special topic under the guidance of a staff member.

Preparation of an engineering report is required.

Credits: 3.

**CE 295 - Special Topics**

Content is dictated by expanding professional interest in newly developing, or recently developed, technical areas in which there is particular need or opportunity. Prerequisite: Minimum Senior standing.

Credits: 0-6.

**CE 304 - Adv Engineering Analysis I**

See Mechanical Engineering 304, 305. Prerequisites: Math 271 or Math 230; CE 304 for CE 305. Cross-listings: ME 304, 305; Math 275, 276.

Credits: 3.

**CE 305 - Adv Engineering Analysis II**

See Mechanical Engineering 304, 305. Prerequisites: Math 271 or Math 230; CE 304 for CE 305. Cross-listings: ME 304, 305; Math 275, 276.

Credits: 3.

**CE 321 - Engr Computations on Adv Arch**

Engineering computations using multiprocessing computers, concurrent processing, algorithms for numerical approximation of differential equations, linear systems. Programming projects required.

Credits: 3.

**CE 360 - Advanced Hydrology**

Application of statistics to engineering hydrology; concept, use of instantaneous unit hydrograph; study of runoff models; flow through porous media; design techniques for water resources projects. Prerequisite: CE 260, MATH 271 or Instructor permission. Offered as occasion warrants.

Credits: 3.

**CE 361 - Fluvial Forms & Processes**

Advanced topics in fluvial forms and processes; focus on river and stream restoration and design; includes journal readings, discussion, field trips and group design project. Pre/co-requisites: CE 160 or Instructor permission.

Credits: 3.

**CE 365 - Contaminant Hydrogeol&Remediat**

Practical, theoretical aspects of contaminant hydrogeology, advances in technologies, mass transport and transformation in saturated and vadose zones; movement, distribution, and remediation of nonaqueous-phase liquids.

Prerequisite: CE 265 or with Instructor permission.

Credits: 3.

**CE 366 - Numerical Method/Surface Water**

Development of the governing equations for geophysical hydrodynamics/transport, shallow water equations, analysis and implementation of finite element/finite difference computational algorithms. Prerequisite: CE 220.

Credits: 3.

**CE 367 - Phys Flow&Trs thru Porous Mdia**

The fundamental equations describing fluid flow and mass transport in subsurface systems are developed from first principles. Pre/co-requisite: CE 265 or equivalent.

Credits: 3.

**CE 368 - Groundwater Modeling**

The fundamental theory of groundwater hydrology is combined with concepts in numerical methods to provide the technology needed to study a real-world groundwater problem. Pre/co-requisite: CE 265 and CE 220 or equivalent.

Credits: 3.

**CE 369 - Applied Geostatistics**

Introduction to the theory of regionalized variables, geostatistics (kriging techniques): special topics in multivariate analysis; Applications to real data subject to spatial variation are emphasized. Pre/co-requisites: Stat 223 or 225; CS16/CE11 or permission. Cross-listings: Stat 369.

Credits: 3.

**CE 390 - Adv Topics in Civil & Envr Eng**

Special topics to intensify the programs of graduate students in civil and environmental engineering. Hours and credits to be arranged.

Credits: 1-6.

**CE 391 - Master Thesis Rsch**

Credits: 1-12.

**CE 395 - Advanced Special Topics**

Advanced topics in recently developed technical areas. Hours and credits as arranged.

Credits: 1-6.

**CE 491 - Doctoral Dissertation Research**

Credits: 1-18.

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Computer Science Department

## Computer Science Department

### Contact Information

*University of Vermont  
Computer Science Department  
351 Votey Building  
33 Colchester Avenue  
Burlington, VT 05405-0156*

Phone: (802) 656-3330

Fax: (802) 656-0696

Email: [Computer.Science@uvm.edu](mailto:Computer.Science@uvm.edu)

[Web Site](#)

### Overview

Computer Science is a multi-faceted discipline requiring the creativity of an artist, the problem-solving ability of a mathematician, the experimental method of a scientist, and the technical skills of an engineer. There are exciting opportunities in many industries, including: communications, health care, manufacturing, finance, entertainment, human services, education, and transportation.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#). [College of Engineering and Mathematics](#).

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## Computer Science (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[CS 21](#), [CS 26](#), [CS 100](#), [CS 101](#), [CS 103](#), [CS 104](#), [CS 224](#) or [CS 243](#), [CS 292](#), and three additional computer science courses at the 200-level or above, for at least nine additional credits, not more than three credits of which may be independent study; [MATH 19](#) + [MATH 20](#) or [MATH 21](#) + [MATH 22](#) ([MATH 21](#) + [MATH 22](#) are recommended), [MATH 54](#); [STAT 153](#); the distribution requirement in natural science must be satisfied, and it is recommended that this requirement be fulfilled with a two-semester laboratory science sequence.

### Affiliations

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## Computer Science (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 124 credits (122, if the student is exempt from PEAC) are required as follows:

- Computer Science (41 credits): [CS 021](#), [CS 026](#), [CS 100](#), [CS 101](#), [CS 103](#), [CS 104](#), [CS 201](#), [CS 224](#) or [CS 243](#), [CS 292](#), plus fifteen additional credits (five courses) of 200-level courses (not more than three credits of which may be independent study);
- Mathematics (17 credits): [MATH 021](#), [MATH 022](#), [MATH 054](#); two of [MATH 121](#), [MATH 124](#), [MATH 173](#), [MATH 271](#);
- Statistics (3 credits): [STAT 153](#)
- Science (13 credits): advisor-approved science electives in Astronomy, Anatomy and Neurobiology, Biology, Botany, Chemistry, Environmental Science, Geology, Microbiology and Molecular Genetics, Nutrition and Food Sciences, Physics, [EE 003](#) or [EE 004](#), and to include one laboratory science sequence selected from the following:
  - Biology: [BIOL 001](#) or [BIOL 011](#), [BIOL 002](#) or [BIOL 012](#)
  - Chemistry: [CHEM 031](#) or [CHEM 035](#), [CHEM 032](#) or [CHEM 036](#)
  - Physics: [PHYS 031](#) (with [PHYS 021](#)), [PHYS 42](#) (with [PHYS 22](#))
- Technical Electives (6 credits): Two courses in approved technical electives. See the department for a current list of approved courses.
- Writing (3 credits): [ENGS 001](#), [ENGS 050](#), or [ENGS 053](#)
- HSS (18 credits): Six courses in social science, humanities, and fine arts electives. At least six credits must be chosen from the "Social Science Group" and at least



## Education

- Graduate College
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six credits from the "Humanities and Fine Arts Group," as defined below.

- Social Science Group: ALANA U.S. Ethnic Studies, Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, Women's Studies, or other advisor-approved social science electives.
- Humanities and Fine Arts Group: Art, Classics, Film, Music, Philosophy, Religion, Speech, Theatre, language or literature, or other advisor-approved humanities or fine arts electives.
- In addition, students must either complete a one credit "Race and Culture" course or ensure that at least one HSS elective also satisfies the "Non-European Culture" or "Race Relations and Ethnicity Requirements," as specified under General Requirements in the College of Arts and Sciences section of this catalogue.

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- Non-CS Electives (9 additional credits): advisor-approved free electives (excluding CS and PEAC);
- Free Electives (12 additional credits): advisor-approved free electives (excluding PEAC);
- Physical Education - PEAC (2 credits): see the "Academic Policies" section of this catalogue for exceptions; and
- Students must complete a university approved minor (excluding computer science); courses used to fulfill other requirements may be used to satisfy minor requirements.

Note: No grade below a C- in any computer science course will be accepted, except as free elective credit.

## Curriculum

### Possible Curriculum

A sample course sequence can be found on the [Computer Science department web site](#) .

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#). [College of Arts and Sciences](#).
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## Computer Science (Undergraduate Minor)

### Specific Requirements

A Computer Science Minor consists of 18 credits in computer science to include [CS 100](#) or [CS 103](#), [CS 104](#), and three additional credits at the 100 level or above. Some Computer Science courses require additional prerequisites.

### Affiliations

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Computer Science Department > Academic Offerings > Computer Science: Computer Science and Information Systems (B.S.)

## Computer Science: Computer Science and Information Systems (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

A minimum of 125 credits (123, if the student is exempt from PEAC) are required as follows:

- Computer Science (35 credits): [CS 014](#), [CS 021](#), [CS 026](#), [CS 100](#), [CS 101](#), [CS 104](#), [CS 148](#), [CS 292](#), plus three additional credits (one course) at the 100-level or above ([CS 103](#) is recommended for students who wish to pursue graduate study in computer science), plus nine additional credits (three courses) at the 200-level; no more than three credits may be independent study;
- Business Administration (29 credits): [BSAD 060](#), [BSAD 061](#), [BSAD 120](#), [BSAD 132](#), [BSAD 141](#), [BSAD 143](#), [BSAD 150](#), [BSAD 173](#), [BSAD 180](#);
- Economics (6 credits): [EC 011](#), [EC 012](#)
- Mathematics (9 to 11 credits): [MATH 019/MATH 020](#), or [MATH 021/MATH 022](#) (recommended sequence), [MATH 054](#)
- Statistics (3 credits): [STAT 153](#)
- Science (8 to 10 credits): One laboratory science sequence, selected from the following three:
  - Biology: [BIOL 001](#), [BIOL 002](#)
  - Chemistry: [CHEM 031](#), [CHEM 032](#)
  - Physics: [PHYS 031](#) (with [PHYS 021](#)), [PHYS 042](#) (with [PHYS 022](#))
- Writing (3 credits): [ENGS 001](#), [ENGS 050](#), or [ENGS 053](#);
- HSS (18 credits): Six courses in social science, humanities, and fine arts electives.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

At least six credits must be chosen from the "Social Science Group" and at least six credits from the "Humanities and Fine Arts Group," as defined below.

- Social Science Group: ALANA U.S. Ethnic Studies, Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, Women's Studies, or other advisor-approved social science electives.
- Humanities and Fine Arts Group: Art, Classics, Film, Music, Philosophy, Religion, Speech, Theatre, language or literature, or other advisor-approved humanities or fine arts electives.
- In addition, students must either complete a one credit "Race and Culture" course or ensure that at least one HSS elective also satisfies the "Non-European Culture" or "Race Relations and Ethnicity Requirements," as specified under General Requirements in the College of Arts and Sciences section of this catalogue.

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- Free Electives (12 additional credits): advisor-approved free electives (excluding PEAC);
- Physical Education - PEAC (2 credits): see the "Academic Policies" section of this catalogue for exceptions.

## Faculty and Administration

No grade below a C- in any computer science or business administration course will be accepted, except as free elective credit.

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### Curriculum

### Possible Curriculum

A sample course sequence can be found on the Computer Science department [web site](#) .

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## Courses in Computer Science

### CS 002 - MS Office: Beyond the Basics

Word documents looking dull? Excel charts lacking something? PowerPoint slides fizzling? All this and more is covered. Learn more than just the basics.

Credits: 3.

### CS 003 - Concepts of Computer Systems

Introduction to computer systems, components, system software, editors, utilities and language processors, programming, problem solving, applications. May not be taken for credit concurrently with, or following receipt of credit for, any CS course numbered higher than CS 003. Prerequisite: Two years high school algebra.

Credits: 3.

### CS 005 - Introductory Special Topics

Prerequisite: Instructor permission. Hours variable. May not be taken for credit after any Computer Science course numbered CS 016 or higher.

Credits: 0-3.

### CS 008 - Introduction: WWW Design (2-2)

Provides a strong foundation in HTML, working with images, beginning JavaScript programming, and web design so that the student can create a functional web site.

Credits: 3.

### CS 014 - Visual Basic Programming

Programming in the MS Windows environment using forms, objects, methods, functions, and code. Creation of regular applications and customized office suite applications.

Credits: 3.

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### **CS 016 - Prog MATLAB Engineers&Science**

Problem solving, computer programming, and the use of standard numerical methods, visualization and systems thinking in the context of engineering and scientific applications using MATLAB. Prerequisite: Concurrent enrollment in Math 20 or 22.

Credits: 4.

### **CS 019 - Introduction to Programming**

A gentle introduction to computer programming using Java Applets on web pages. Topics include selection, repetition, functions, objects, event-driven programming, arrays, inheritance, GUI design. Pre/co-requisites: No credit after CS 21 or higher.

Credits: 3.

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### **CS 021 - Computer Programming I**

Introduction to algorithmic problem solving. Designed to provide a foundation for further studies in computer science. Credit not given for more than one in the pair CS 11, 21. Prerequisite: Math. 10 or a strong background in secondary school algebra and trigonometry.

Credits: 4.

### **CS 026 - Computer Programming II**

Introduction to more advanced programming concepts that provide a foundation for further study in computer science. Topics include data structures and algorithms, concepts of style, design, documentation, testing and debugging techniques. Prerequisites: 21.

Credits: 3.

### **CS 031 - Computer Programming II: C**

Credits: 3.

### **CS 032 - Puzzles, Games & Algorithms**

Introductory computer science through exploration and analysis of mathematical puzzles and games, and the algorithms that handle them.

Credits: 3.

### **CS 042 - Dynamic Data on the Web**

Data is everywhere; Learn to collect, organize, and classify it. Students will design and create tables, queries and reports on the web using introductory programming.

Credits: 3.

### **CS 095 - Special Topics**

Prerequisite: Instructor's permission.

Credits: 1-4.

### **CS 100 - Object-Oriented Programming**

Object-oriented software analysis, design, and programming using a modern object-oriented programming environment. Topics include encapsulation,

information hiding, inheritance, and polymorphism. Prerequisite: 26.

Credits: 3.

**CS 101 - Computer Organization**

Introduction to computer system organization including performance, assembly language, machine-level data representation, arithmetic for computers, processor datapath control, memory, and input/output. Prerequisite: CS 026.

Credits: 3.

**CS 103 - Programming Languages**

Systematic treatment of principles underlying the features and implementation of programming languages. Contrast of traditional procedural languages and at least one nontraditional language. Prerequisite: CS 026.

Credits: 3.

**CS 104 - Data Structures**

MATH 052 or MATH 054.

Credits: 3.

**CS 148 - Database Design for the Web**

Design and implementation of a relational database model using SQL and PHP. Typical project includes creation of ecommerce shopping site. Prerequisites: One semester of programming,

Credits: 3.

**CS 192 - Independent Service & Teaching**

Independently designed project or pedagogical experience that benefits the University or the Community under the direction of a CS faculty member. Requires final presentation. Pre/co-requisite: Department permission.

Credits: 1-3.

**CS 195 - Special Topics**

Prerequisite: Instructor's permission.

Credits: 1-6.

**CS 201 - Operating Systems**

Supervisory and control software for multiprogrammed computer systems. Processes synchronization, interprocess communication, scheduling, memory management, resource allocation, performance evaluation, object-oriented systems, case studies. Prerequisites: 103, 104.

Credits: 3.

**CS 202 - Compiler Construction**

Practice in design and implementation of translators for ALGOL-like languages. Regular and context-free grammars, parsing, code generation for stack and register machines. Interpreters. Run-time storage administration for block-structured languages. Prerequisites: 103, 243.

Credits: 3.

**CS 204 - Database Systems**

Secondary storage. Database design and management. Query languages and optimization. Database recovery. Prerequisites: 101, 104; 201 recommended.

Credits: 3.

**CS 205 - Software Engineering**

Treatment of software engineering problems and principles, including documentation, information hiding, and module interface specification syntax and semantics. Requires participation in a team project. Students who receive credit for 205 may not receive credit for 208 or 209.

Credits: 3.

**CS 208 - Software Requirements&Design**

Project management, requirements for software products, design methodologies and formal and informal notations describing designs. Includes developing requirements and design for a substantial software product. Credit not awarded for more than one of 205 and 208. Prerequisites: CS 100, CS 104.

Credits: 3.

**CS 209 - Software Implement&Verificat'n**

Prerequisites: CS 100, CS 104. Covers advanced program development methodologies, software performance measuring and tuning and the verification and validation of software. Includes a significant implementation and evaluation project. Credit not awarded for more than one of 205 and 209.

Credits: 3.

**CS 222 - Computer Architecture**

Architecture of computing systems. Control unit logic, input/output processors and devices, asynchronous processing, concurrency, parallelism, and memory hierarchies. Prerequisite: 101.

Credits: 3.

**CS 224 - Analysis of Algorithms**

Introduction to both analytical and experimental techniques in algorithm analysis. Basic algorithm design strategies. Introduction to complexity theory. Prerequisites: 103, 104. Math. 173 recommended.

Credits: 3.

**CS 228 - Human-Computer Interaction**

The design, implementation and evaluation of user interfaces for computers and other complex, electronic equipment. Includes a significant project.

Credits: 3.

**CS 231 - Bioinformatics**

MMG 102 desirable. Crosslisting MMG 231. Introduction to current topics in bioinformatics. Applications may include sequence alignment, dynamic programming, hidden Markov models, phylogenetics trees, microarray data analysis, genomics, and proteomics. Prerequisites: STAT 151, CS 26, and



Credits: 3.

### **CS 243 - Theory of Computation**

Introduction to theoretical foundations of computer science. Models of computation. Church's thesis and noncomputable problems. Formal languages and automata. Syntax and semantics. Prerequisite: 104. (Same as Math 243).

Credits: 3.

### **CS 251 - Artificial Intelligence**

Introduction to methods for realizing intelligent behavior

Credits: 3.

### **CS 256 - Neural Computation**

convergence theorems, backpropagation, reinforcement Introduction to artificial neural networks, their computational capabilities and limitations, and the algorithms used to train them. Statistical capacity, learning, generalization.

Prerequisites: Math 124 (or 271), Stat 153 or equivalent, computer programming.

Cross-listed: STAT 256

Credits: 3.

### **CS 260 - Parallel Algorithms&Prog Tech**

Taxonomy of parallel computers, basic concepts for parallel computing, effectiveness and scalability, parallel algorithms for variety of problems, message-passing programming paradigm and data-parallel languages. Prerequisite: 103, 104. MATH 173 and MATH 124 recommended.

Credits: 3.

### **CS 265 - Computer Networks**

Introduction to the theoretical and pragmatic principles of

Credits: 3.

### **CS 266 - Network Security&Cryptography**

Security and secrecy in a networked environment. Cryptography: public and private key. Authentication: trusted agents, tickets. Electronic mail and digital signatures. Privacy and national security. Prerequisites: 104, Math. 124 or 271.

Credits: 3.

### **CS 274 - Computer Graphics**

removal, rendering techniques. Prerequisite: 104, Math. Graphical representation of two- and three-dimensional objects on color raster displays. Line generation, region filling, geometric transformations, hidden line and surface 121, Math. 124 or 271.

Credits: 3.

### **CS 283 - Undergraduate Honors Thesis**

See description of Honors Thesis Program in the College of EM section of this catalog.

Credits: 3.

**CS 284 - Undergraduate Honors Thesis**

See description of Honors Thesis Program in the College of EM section of this catalog.

Credits: 3.

**CS 292 - Senior Seminar**

Oral presentations that pertain to the ethical practice of computer science in government, industry, and academia. Topics may include computer security, copyright, and patent law. Prerequisite: Senior standing in Computer Science.

Credits: 1.

**CS 294 - Independent Readings&Research**

Independent readings and investigation under the direction of faculty member.

Prerequisite: Department permission.

Credits: 1-6.

**CS 295 - Special Topic:Computer Science**

Subject will vary from year to year. May be repeated for credit.

Credits: 1-6.

**CS 296 - Special Topics:Computer Sci**

Credits: 1-6.

**CS 303 - Adv Top:Prog Environ&Language**

Object-oriented, functional, or procedural programming languages, language design, parsing, translation, compilation, interpretation, programming and runtime environments. May be repeated for credit with instructor permission. Prerequisites: 103, 202.

Credits: 3.

**CS 316 - Adv Top:Computational Science**

Topics chosen from engineering and scientific applications, visualization, large-scale data analysis. May be repeated for credit with instructor permission.

Prerequisite: Varies by semester. Instructor permission required.

Credits: 3.

**CS 321 - Adv Top:Computer Architecture**

repeated for credit with Instructor permission. Prerequisite: CS 222.

Credits: 3.

**CS 331 - Adv Tpcs Database&Knwldg Sys**

systems, object-oriented and relational systems, data models, knowledge representation. May be repeated for credit with Instructor permission.

Credits: 3.

**CS 346 - Adv Top:Theory of Computation**

Topics from complexity theory, analysis of algorithms, formal languages, combinatorial and geometric algorithms, and theory of databases, networks, distributed algorithms. May be repeated with Instructor permission. Prerequisite:

CS 224, CS 243.

Credits: 3.

**CS 351 - Pattern Anyl&Artificial Intell**

Topics chosen from pattern analysis, clustering, neural networks, planning, natural language understanding. May be repeated for credit with instructor permission.

Prerequisites: CS 224, CS 351.

Credits: 3.

**CS 355 - Statistical Pattern Recongtrn**

kernels, discriminants, neural networks, and clustering. Analysis of algorithms used for feature selection, density estimation, and pattern classification, including Bayes classifiers, maximum likelihood, nearest neighbors, Prerequisites: Stat 241 or 251 or instructor permission.

Credits: 3.

**CS 361 - Adv Topics:Systems Software**

Topics chosen from operating systems, distributed or parallel software systems, real-time systems, experimental systems, software engineering. May be repeated for credit with Instructor permission. Prerequisite: CS 201, CS 222.

Credits: 3.

**CS 363 - Computer System Performance**

Topics chosen from models of computer and operating system performance and queuing systems. May be repeated for credit with Instructor permission.

Prerequisite: CS 201, STAT 151.

Credits: 3.

**CS 365 - Adv Top:Network Design&Anyl**

Topics chosen from network design, network protocols, network algorithms, and network performance. May be repeated for credit with Instructor permission.

Prerequisite: CS 224, CS 265.

Credits: 3.

**CS 374 - Computer Graphic&Visualization**

Topics chosen from computer graphics and visualization, such as rendering, hidden surface removal, animation, data visualization. May be repeated for credit with Instructor permission. Prerequisite: CS 224, CS 274.

Credits: 3.

**CS 381 - Seminar**

Presentations by students, faculty, and guest speakers on advanced topics in Computer Science. May be repeated

Credits: 1.

**CS 391 - Master's Thesis Research**

Credits: 1-18.

**CS 392 - Master's Project**

Prerequisite: Department permission.

Credits: 1-6.

**CS 394 - Independent Study**

Independent readings and investigation under the direction of a faculty member.

Prerequisite: Instructor permission.

Credits: 1-6.

**CS 395 - Special Topics**

Subject will vary from year to year. May be repeated for credit. Prerequisite:

Instructor permission.

Credits: 1-6.

**CS 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## Faculty for Computer Science Department

Jeffrey P. Bond

Professor of Microbiology and Molecular Genetics

Appointed in 1995

Computer Science Department

Microbiology and Molecular Genetics Department

BS 1983 University of Rochester

MS 1986 University of Rochester

PHD 1989 University of Rochester

Search Courses for Jeffrey Bond

Jeffrey Howard Dinitz

Professor of Computer Science

Professor of Mathematics and Statistics

Appointed in 1980

Computer Science Department

Mathematics and Statistics Department

BS 1974 Carnegie Mellon University

MS 1976 Ohio State University

PHD 1980 Ohio State University

Search Courses for Jeffrey Dinitz

Margaret Jean Eppstein

Associate Professor of Biology

Associate Professor of Computer Science

Chairperson of Computer Science

Appointed in 1983

- Education [Biology Department](#)
  - Graduate College [Computer Science Department](#)
  - Honors College BS 1978 [Michigan State University](#)
  - School of Business Administration MS 1983 [University of Vermont](#)
  - PHD 1997 [University of Vermont](#)
  - [Search Courses for Margaret Eppstein](#)
- 

- The Rubenstein School of Environment and Natural Resources Robert Michael Erickson
  - Senior Lecturer of Computer Science
  - Appointed in [1992](#)
  - [Computer Science Department](#)
  - BS 1987 [Castleton State College](#)
  - MS 1991 [Clarkson University](#)
  - [Search Courses for Robert Erickson](#)
- 

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Faculty and Administration

Catalogue Archives

- 
- Joel K. Furr
- Adjunct Instructor of Computer Science
- Appointed in [1998](#)
- [Computer Science Department](#)
- BA 1988 [University of Georgia](#)
- MPA 1990 [Virginia Polytechnic Institute and State University](#)
- [Search Courses for Joel Furr](#)
- 

- Mack George Gardner-Morse
- Lecturer of Computer Science
- Research Engineer for Orthopaedics and Rehabilitation
- Appointed in [1989](#)
- [Computer Science Department](#)
- [Orthopaedics and Rehabilitation Department](#)
- BSME 1982 [University of Vermont](#)
- MSME 1990 [University of Vermont](#)
- [Search Courses for Mack Gardner-Morse](#)
- 

- Gerald Paul Ghazi
- Adjunct Instructor of Computer Science
- Appointed in [1998](#)
- [Computer Science Department](#)
- BS 1981 [Rutgers University New Brunswick/Piscataway](#)
- JD 1987 [Seton Hill University](#)
- [Search Courses for Gerald Ghazi](#)
- 

- David C. Gibson
- Research Assistant Professor of Computer Science

Appointed in [1999](#)  
[Computer Science Department](#)  
BMUS 1973 [Immaculate Heart](#)  
MED 1988 [Antioch University New England](#)  
EDD 1999 [University of Vermont](#)  
[Search Courses for David Gibson](#)

---

Jackie Lynn Horton  
Senior Lecturer of Computer Science  
Appointed in [1998](#)  
[Computer Science Department](#)  
BS 1987 [University of Vermont](#)  
MS 1995 [University of Vermont](#)  
[Search Courses for Jackie Horton](#)

---

Byung S. Lee  
Professor of Computer Science  
Appointed in [1999](#)  
[Computer Science Department](#)  
BS 1980 [Seoul National University](#)  
MS 1982 [KAIST](#)  
PHD 1991 [Stanford University](#)  
[Search Courses for Byung Lee](#)

---

Alan Chi Ling  
Assistant Professor of Mathematics and Statistics  
Associate Professor of Computer Science  
Appointed in [1999](#)  
[Computer Science Department](#)  
[Mathematics and Statistics Department](#)  
BA 1994 [University of Waterloo](#)  
MA 1995 [University of Waterloo](#)  
PHD 1997 [University of Waterloo](#)  
[Search Courses for Alan Ling](#)

---

Eric D. Matthews  
Adjunct Instructor of Computer Science  
Appointed in [1998](#)  
[Computer Science Department](#)  
BS 1987 [Southern Illinois University Carbondale](#)  
[Search Courses for Eric Matthews](#)

---

Gagan S. Mirchandani  
Professor of Computer Science  
Professor of Engineering  
Appointed in 1968  
Computer Science Department  
School of Engineering  
BSC 1953 North Wadia College  
BS 1958 Worcester Polytechnic Institute  
MS 1960 Syracuse University  
PHD 1968 Cornell University  
Search Courses for Gagan Mirchandani

---

Kurt Edmund Oughstun  
Professor of Computer Science  
Professor of Engineering  
Professor of Mathematics and Statistics  
Appointed in 1987  
Computer Science Department  
Mathematics and Statistics Department  
School of Engineering  
BA 1972 Central Connecticut State University  
MS 1974 University of Rochester  
PHD 1978 University of Rochester  
Search Courses for Kurt Oughstun

---

Kimberly Lantman Parker  
Lecturer of Computer Science  
Appointed in 1981  
Computer Science Department  
BS 1977 University of Vermont  
MS 1981 University of Vermont  
EDD 2003 University of Vermont  
Search Courses for Kimberly Parker

---

Alison Merel Pechenick  
Senior Lecturer of Computer Science  
Appointed in 1999  
Computer Science Department  
BSE 1978 Princeton University  
MS 2003 University of Vermont  
Search Courses for Alison Pechenick

---

George Francis Pinder



Professor of Computer Science  
Professor of Engineering  
Professor of Mathematics and Statistics  
Appointed in 1989  
Computer Science Department  
Mathematics and Statistics Department  
School of Engineering  
BSC 1965 University of Western Ontario  
PHD 1968 University of Illinois Urbana-Champaign  
Search Courses for George Pinder

---

Michael Radermacher  
Associate Professor of Computer Science  
Professor of Molecular Physiology and Biophysics  
Appointed in 2002  
Computer Science Department  
Molecular Physiology and Biophysics Department  
BS 1976 University of Munich  
PHD 1980 University of Munich  
Search Courses for Michael Radermacher

---

Christian Edward Skalka  
Associate Professor of Computer Science  
Appointed in 2002  
Computer Science Department  
BA 1991 Saint John's College  
MS 1997 Carnegie Mellon University  
PHD 2002 Johns Hopkins University  
Search Courses for Christian Skalka

---

Robert Raymond Snapp  
Associate Professor of Computer Science  
Associate Professor of Mathematics and Statistics  
Appointed in 1990  
Computer Science Department  
Mathematics and Statistics Department  
AB 1978 University of California San Diego  
PHD 1987 University of Texas Austin  
Search Courses for Robert Snapp

---

Austin R. Troy  
Associate Professor of Computer Science  
Appointed in 2001

[Computer Science Department](#)  
[The Rubenstein School of Environment and Natural Resources](#)  
[Transportation Research Center](#)  
BA 1992 [Yale University](#)  
MF 1995 [Yale University](#)  
PHD 2001 [University of California Berkeley](#)  
[Search Courses for Austin Troy](#)

---

Ferdinando Villa  
Research Associate Professor of Computer Science  
Appointed in [2002](#)  
[Computer Science Department](#)  
MSC 1987 [University of Parma](#)  
PHD 1993 [University of Parma](#)  
[Search Courses for Ferdinando Villa](#)

---

Xiaoyang S Wang  
Adjunct Professor of Computer Science  
Appointed in [2003](#)  
[Computer Science Department](#)  
BS 1982 [Fudan University](#)  
MS 1985 [Fudan University](#)  
PHD 1992 [University of Southern California](#)  
[Search Courses for Xiaoyang Wang](#)

---

Xindong Wu  
Professor of Computer Science  
Appointed in [2001](#)  
[Computer Science Department](#)  
BE 1984 [Hefei University of Technology](#)  
MS 1987 [Hefei University of Technology](#)  
PHD 1993 [Edinburgh University](#)  
[Search Courses for Xindong Wu](#)

---

Jun Yu  
Associate Chairperson of Mathematics and Statistics  
Associate Director of Mathematics and Statistics  
Professor of Computer Science  
Professor of Mathematics and Statistics  
Appointed in [1990](#)  
[Computer Science Department](#)  
[Mathematics and Statistics Department](#)  
BS 1982 [Nanjing Institute of Meteorology](#)

PHD 1988 [University of Washington Seattle](#)

[Search Courses for Jun Yu](#)

---

Philip S. Yu

Research Professor of Computer Science

Appointed in [2002](#)

[Computer Science Department](#)

BS 1972 [National Taiwan University](#)

PHD 1978 [Stanford University](#)

MBA 1982 [New York University](#)

[Search Courses for Philip Yu](#)

---

Radoslaw R. Zakrzewski

Adjunct Assistant Professor of Computer Science

Appointed in [2002](#)

[Computer Science Department](#)

MS 1989 [Warsaw University of Technology](#)

PHD 1995 [Oregon State University](#)

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## Electrical and Computer Engineering Department

### Contact Information

*University of Vermont  
Electrical and Computer Engineering  
Department  
301 Votey Building  
33 Colchester Avenue  
Burlington, VT 05405-0156*

Phone: (802) 656-3331

Fax: (802) 656-3358

Email: [eeinfo@emba.uvm.edu](mailto:eeinfo@emba.uvm.edu)

[Web Site](#)

### Overview

Electrical and computer engineers create all the technological wonders that use electricity for their operation. They design the latest silicon chips used in computers, stereos, and cellular telephones. They create electronic circuits that control fuel flow in an electronic ignition or that keep wheels from skidding in an antilock braking system. Some electrical engineers are involved with the generation and distribution of electrical power, others concentrate on testing new electronic designs and products, such as communication networks. Some focus on programming computers to perform complex tasks, such as developing solutions to problems facing other engineers. Please view our mission statement and objectives at:

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Education <http://www.emba.uvm.edu/ece/mission.htm>

• Graduate College

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• Honors College

- Colleges and Schools:[College of Engineering and Mathematics](#).

• School of Business  
Administration

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• The Rubenstein  
School of  
Environment and  
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## Electrical and Computer Engineering Department: Academic Offerings

- [Electrical Engineering \(Minor\)](#)
- [Electrical Engineering: Biomedical Elective Concentration \(B.S.\)](#)
- [Electrical Engineering: Computer Elective Concentration \(B.S.\)](#)
- [Electrical Engineering: General Elective Concentration \(B.S.\)](#)
- [Electrical Engineering: Premedical Elective Concentration \(B.S.\)](#)

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## Electrical Engineering (Undergraduate Minor)

### Specific Requirements

A minor in Electrical Engineering consists of at least 19 credit hours in Electrical Engineering courses distributed as follows: [EE 3](#), [EE 81](#), [EE 4](#), [EE 82](#), plus at least nine credit hours numbered above 101. Prerequisite courses for the minor are [MATH 21](#), [MATH 22](#), [MATH 121](#), [MATH 271](#) (or [MATH 230](#)) as well as [PHYS 31](#), [PHYS 21](#), [PHYS 42](#), and [PHYS 22](#). Each student in the minor program will be assigned an Electrical and Computer Engineering faculty advisor who will assist the student in developing an individualized plan of study. The plan of study of the minor must be approved by the Electrical and Computer Engineering faculty advisor.

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Electrical and Computer Engineering Department](#).

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## Electrical Engineering: Biomedical Elective Concentration (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Electrical and Computer Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">EE 001 - First-year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">CHEM 042 - Intro Organic Chemistry</a>		4
HSS Electives <sup>1</sup>		6
Physical Education Elective		1
Total	17	17
SOPHOMORE		
Course	Credits	
	Fall	Spring



Education	<a href="#">MATH 121 - Calculus III</a>	4	
• Graduate College	<a href="#">PHYS 031 - Introductory Physics</a>	4	
	<a href="#">PHYS 021 - Introductory Lab I</a>	1	
• Honors College	<a href="#">EE 003 - Linear Circuit Analysis I</a>	3	
	<a href="#">EE 081 - Linear Circuits Laboratory I</a>	2	
• School of Business Administration	HSS Electives <sup>1</sup>	3	3
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3
• The Rubenstein School of Environment and Natural Resources	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>		4
	<a href="#">PHYS 022 - Introductory Lab II</a>		1
	<a href="#">EE 004 - Linear Circuit Analysis II</a>		3
	<a href="#">EE 082 - Linear Circuits Laboratory II</a>		2
Policies and General Information	Total	17	16
	<b>JUNIOR</b>		
Faculty and Administration	<b>Course</b>	<b>Credits</b>	
		<b>Fall</b>	<b>Spring</b>
Catalogue Archives	<a href="#">EE 120 - Electronics I</a>	3	
	<a href="#">EE 163 - Solid State Phys Electronics I</a>	4	
	<a href="#">EE 183 - Electronics Laboratory I</a>	2	
	<a href="#">ANPS 019 - Ugr Hum Anatomy &amp; Physiology</a>	4	
	<a href="#">STAT 143 - Statistics for Engineering</a> or <a href="#">STAT 151 - Applied Probability</a>	3	
	<a href="#">EE 121 - Electronics II</a>		3
	<a href="#">EE 134 - Fund of Microcomp Based Syst</a> or <a href="#">EE 227 - Biomed Measmnts Instrum &amp; Sys</a>		4 or 3
	<a href="#">EE 184 - Electronics Laboratory II</a>		2
	<a href="#">ME 114 - Intro Engineering Mechanics</a>		3
	<a href="#">ANPS 020 - Ugr Hum Anatomy &amp; Physiology</a>		4
	Physical Education Elective		1
	Total	16	17 or 16
	<b>SENIOR</b>		
		<b>Course</b>	<b>Credits</b>
<b>Fall</b>			<b>Spring</b>
	<a href="#">EE 141 - Electromagnetic Field Theory I</a>	3	
	<a href="#">EE 171 - Signals &amp; Systems</a>	4	
	<a href="#">EE 185 - Systems and Applications Lab</a>	1	
	<a href="#">EE 187 - Professional Design Issues</a>	2	
	<a href="#">ME 207 - Biomechanics I</a>	3	
	HSS Electives <sup>1</sup>	3	3
	<a href="#">EE 142 - Electromagnetic Field Thry II</a>		3

<a href="#"><u>EE 174 - Intro to Communication Systems</u></a>		3
<a href="#"><u>EE 186 - Telecommunications Lab</u></a>		1
<a href="#"><u>EE 188 - Major Design Experience</u></a>		2
<a href="#"><u>EE 134 - Fund of Microcomp Based Syst</u></a> or <a href="#"><u>EE 227 - Biomed Measmnts Instrum &amp; Sys</u></a>		4 or 3
Total	16	16 or 15
TOTAL CREDITS: 131		

**Notes:**

1. HSS Electives (18 credits): Students must select one HSS course from the list of approved race and culture courses.

**Affiliations**

- Colleges and Schools:[College of Engineering and Mathematics](#).
- Departments and Programs:[Electrical and Computer Engineering Department](#).

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## Electrical Engineering: Computer Elective Concentration (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Electrical and Computer Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">EE 001 - First-year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
HSS Electives <sup>1</sup>		6
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring

Education	<a href="#">EE 003 - Linear Circuit Analysis I</a>	3		
• Graduate College	<a href="#">EE 081 - Linear Circuits Laboratory I</a>	2		
	<a href="#">MATH 121 - Calculus III</a>	4		
• Honors College	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4		
	<a href="#">PHYS 022 - Introductory Lab II</a>	1		
• School of Business Administration	HSS Electives <sup>1</sup>	3	3	
	<a href="#">EE 004 - Linear Circuit Analysis II</a>		3	
• The Rubenstein School of Environment and Natural Resources	<a href="#">EE 082 - Linear Circuits Laboratory II</a>		2	
	<a href="#">CS 026 - Computer Programming II</a>		3	
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3	
	<a href="#">STAT 143 - Statistics for Engineering</a> or <a href="#">STAT 151 - Applied Probability</a>		3	
	Total	17	17	
Policies and General Information	<b>JUNIOR</b>			
Faculty and Administration	<b>Course</b>	<b>Term</b>		
		<b>Fall</b>	<b>Spring</b>	
Catalogue Archives	<a href="#">EE 120 - Electronics I</a>	3		
	<a href="#">EE 131 - Fundamentals of Digital Design</a>	3		
	<a href="#">EE 163 - Solid State Phys Electronics I</a> or <a href="#">EE 171 - Signals &amp; Systems</a>	4		
	<a href="#">MATH 054 - Fund of Math of Computation</a>	3		
	HSS Electives <sup>1</sup>	3	3	
	<a href="#">EE 121 - Electronics II</a>		3	
	<a href="#">EE 134 - Fund of Microcomp Based Syst</a>		4	
	<a href="#">CS 104 - Data Structures</a>		3	
	CS Elective <sup>2</sup>		3	
	Total	16	16	
	<b>SENIOR</b>			
		<b>Course</b>	<b>Term</b>	
			<b>Fall</b>	<b>Spring</b>
		<a href="#">EE 141 - Electromagnetic Field Theory I</a>	3	
		<a href="#">EE 163 - Solid State Phys Electronics I</a> or <a href="#">EE 171 - Signals &amp; Systems</a>	4	
	<a href="#">EE 183 - Electronics Laboratory I</a>	2		
	<a href="#">EE 187 - Professional Design Issues</a>	2		
	EE Design Elective <sup>3</sup>	3		
	EE/CS Technical Elective <sup>4</sup>	3		
	<a href="#">EE 174 - Intro to Communication Systems</a>		3	

<u>EE 184 - Electronics Laboratory II</u>		2
<u>EE 188 - Major Design Experience</u>		2
CS Elective <sup>2</sup>		3
Non-EE Engineering Science Elective <sup>5</sup>		3
Physical Education Elective		2
Total	17	15
TOTAL CREDITS: 132		

### Notes:

1. HSS Electives (18 credits): Students must select one HSS course from the list of approved race and culture courses.
2. CS Electives: A 100-level or higher CS course (except CS 148) that must be preapproved by your advisor.
3. EE Design Electives: EE 221, EE 222, EE 224, EE 227, EE 228, EE 231, EE 250, EE 251, EE 275, EE 276, EE 295.
4. EE/CS Technical Electives: EE 113, EE 164, EE 210, EE 221, EE 222, EE 224, EE 227, EE 228, EE 231, EE 241, EE 245, EE 246, EE 250, EE 251, EE 261, EE 266, EE 274, EE 275, EE 276, EE 295; any 100-level or higher CS course (except CS 148; note: CS 195 and CS 295 must have advisor approval).
5. Non-EE Engineering Science Electives: CE 001, CE 010, CE 150; ME 012, ME 040, ME 114.

### Affiliations

- Colleges and Schools: College of Engineering and Mathematics.
- Departments and Programs: Electrical and Computer Engineering Department.

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## Electrical Engineering: General Elective Concentration (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Electrical and Computer Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">EE 001 - First-year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
HSS Electives <sup>1</sup>		6
Total	17	17
SOPHOMORE		
Course	Term	
	Fall	Spring

Education	<a href="#">EE 003 - Linear Circuit Analysis I</a>	3	
• Graduate College	<a href="#">EE 081 - Linear Circuits Laboratory I</a>	2	
	<a href="#">EE 131 - Fundamentals of Digital Design</a>	3	
• Honors College	<a href="#">MATH 121 - Calculus III</a>	4	
• School of Business Administration	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4	
	<a href="#">PHYS 022 - Introductory Lab II</a>	1	
• The Rubenstein School of Environment and Natural Resources	<a href="#">EE 004 - Linear Circuit Analysis II</a>		3
	<a href="#">EE 082 - Linear Circuits Laboratory II</a>		2
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3
	<a href="#">STAT 143 - Statistics for Engineering</a> or [[course:stat 151 STAT 151 - Applied Probability]]		3
Policies and General Information	HSS Electives <sup>1</sup>		6
	Total	17	17
Faculty and Administration	<b>JUNIOR</b>		
Catalogue Archives	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EE 120 - Electronics I</a>	3	
	<a href="#">EE 163 - Solid State Phys Electronics I</a>	4	
	<a href="#">EE 171 - Signals &amp; Systems</a>	4	
	<a href="#">EE 183 - Electronics Laboratory I</a>	2	
	HSS Elective <sup>1</sup>	3	
	<a href="#">EE 121 - Electronics II</a>		3
	<a href="#">EE 134 - Fund of Microcomp Based Syst</a>		4
	<a href="#">EE 164 - Solid St Phys Electronics II</a>		3
	<a href="#">EE 174 - Intro to Communication Systems</a>		3
	<a href="#">EE 184 - Electronics Laboratory II</a>		2
	Physical Education Elective		1
	Total	16	16
	<b>SENIOR</b>		
Catalogue Archives	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<a href="#">EE 141 - Electromagnetic Field Theory I</a>	3	
	<a href="#">EE 185 - Systems and Applications Lab</a>	1	
	<a href="#">EE 187 - Professional Design Issues</a>	2	
	Non-EE Engineering Science Elective <sup>2</sup>	3	
	EE Design Elective <sup>3</sup>	3	
	EE Engineering Science Elective <sup>4</sup>	3	3
	<a href="#">EE 142 - Electromagnetic Field Thry II</a>		3
	<a href="#">EE 186 - Telecommunications Lab</a>		1

<u>EE 188 - Major Design Experience</u>		2
Technical Elective <sup>5</sup>		3
HSS Elective <sup>1</sup>		3
Physical Education Elective		1
Total	15	16
TOTAL CREDITS: 131		

### Notes:

1. HSS Electives (18 credits): Students must select one HSS course from the list of approved race and culture courses.
2. Non-EE Engineering Science Electives: CE 001, CE 010, CE 150; ME 012, ME 040, ME 114.
3. EE Design Electives: EE 221, EE 222, EE 224, EE 227, EE 228, EE 231, EE 250, EE 251, EE 275, EE 276, EE 295.
4. EE Engineering Science Electives: EE 113, EE 210, EE 241, EE 242, EE 245, EE 246, EE 261, EE 266, EE 274.
5. Technical Electives: EE 113, EE 164, EE 210, EE 221, EE 222, EE 224, EE 227, EE 228, EE 231, EE 241, EE 245, EE 246, EE 250, EE 251, EE 261, EE 266, EE 274, EE 275, EE 276, EE 295; CS 026, CS 100, CS 101, CS 103, CS 104, CS 201, CS 222; PHYS 128; ME 014, ME 040, ME 114, ME 150; CE 125; CHEM 161; MATH 054, MATH 124, MATH 173; STAT 143, STAT 151; all 200-level MATH or STAT courses except for practicum, seminar and special topics.

### Affiliations

- Colleges and Schools:College of Engineering and Mathematics.
- Departments and Programs:Electrical and Computer Engineering Department.

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Electrical and Computer Engineering Department > Academic Offerings > Electrical Engineering: Premedical Elective Concentration (B.S.)

## Electrical Engineering: Premedical Elective Concentration (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Electrical and Computer Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">EE 001 - First-year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">CHEM 032 - Intro Organic Chemistry</a>		4
HSS Electives <sup>1</sup>		6
Physical Education Elective		1
Total	17	17
SOPHOMORE		
Course	Credits	
	Fall	Spring

Education	<u>MATH 121 - Calculus III</u>	4		
• Graduate College	<u>PHYS 031 - Introductory Physics</u>	4		
	<u>PHYS 021 - Introductory Lab I</u>	1		
• Honors College	<u>EE 003 - Linear Circuit Analysis I</u>	3		
	<u>EE 081 - Linear Circuits Laboratory I</u>	2		
• School of Business Administration	HSS Electives <sup>1</sup>	3	3	
	<u>MATH 271 - Appl Math for Engr&amp;Scientists</u>		3	
• The Rubenstein School of Environment and Natural Resources	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>		4	
	<u>PHYS 022 - Introductory Lab II</u>		1	
	<u>EE 004 - Linear Circuit Analysis II</u>		3	
	<u>EE 082 - Linear Circuits Laboratory II</u>		2	
Policies and General Information	Total	17	16	
	<b>JUNIOR</b>			
Faculty and Administration	<b>Course</b>	<b>Credits</b>		
		<b>Fall</b>	<b>Spring</b>	
Catalogue Archives	<u>BIOL 001 - Principles of Biology</u>	4		
	<u>EE 141 - Electromagnetic Field Theory I</u>	3		
	<u>CHEM 141 - Organic Chemistry</u>	4		
	<u>STAT 143 - Statistics for Engineering</u> or <u>STAT 151 - Applied Probability</u>	3		
	HSS Electives <sup>1</sup>	3	3	
	<u>BIOL 002 - Principles of Biology</u>		4	
	<u>EE 134 - Fund of Microcomp Based Syst</u>		4	
	<u>CHEM 142 - Organic Chemistry</u>		4	
	Physical Education Elective		1	
	Total	17	16	
	<b>SENIOR</b>			
		<b>Course</b>	<b>Credits</b>	
			<b>Fall</b>	<b>Spring</b>
	<u>EE 120 - Electronics I</u>	3		
	<u>EE 163 - Solid State Phys Electronics I</u>	4		
	<u>EE 171 - Signals &amp; Systems</u>	4		
	<u>EE 183 - Electronics Laboratory I</u>	2		
	<u>EE 187 - Professional Design Issues</u>	2		
	<u>EE 121 - Electronics II</u>		3	
	<u>EE 174 - Intro to Communication Systems</u>		3	
	<u>EE 184 - Electronics Laboratory II</u>		2	
	<u>EE 188 - Major Design Experience</u>		2	
	EE Engineering Science Elective <sup>2</sup>		3	

Non-EE Engineering Science Elective <sup>3</sup>		3
Total	15	16
TOTAL CREDITS: 131		

**Notes:**

1. HSS Electives (18 credits): Students must select one HSS course from the list of approved race and culture courses.
2. EE Engineering Science Electives: [EE 113](#), [EE 210](#), [EE 241](#), [EE 242](#), [EE 245](#), [EE 246](#), [EE 261](#), [EE 266](#), [EE 274](#).
3. Non-EE Engineering Science Electives: [CE 001](#), [CE 010](#), [CE 150](#); [ME 012](#), [ME 040](#), [ME 114](#).

**Affiliations**

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Electrical and Computer Engineering Department](#).

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Electrical and Computer Engineering Department > Requirements > Electrical and Computer Engineering Requirements

## Electrical and Computer Engineering Requirements

The curriculum in Electrical Engineering leading to the degree of Bachelor of Science in Electrical Engineering offers instruction in electrical and electronic circuits, electromagnetics, semiconductor devices, signal and system analysis, communications, digital systems, well as in physical and life sciences, humanities, and social sciences.

There are four elective concentrations leading to an ABET accredited degree of Bachelor of Science in Electrical Engineering: General Electrical Engineering, Computer Engineering, Biomedical Engineering, and Premedical Engineering. The degree requires a minimum of 130 semester hours for Elective Concentration 1, 128 semester hours for Elective Concentration 2, 130 for Elective Concentration 3, and 130 credit hours for Elective Concentration 4. In addition, two credits of physical education activities are required.

All students must elect one course from the list of approved cultural diversity courses as one of their required humanities and social science courses.

Students may pursue a cross-college or departmental minor provided that they fulfill all Electrical Engineering degree requirements.

Engineering design is developed and integrated in each student's program and culminates in a required major design experience which draws upon prior course work and which focuses on the issues and expectations of professional practice.

No more than three grades of D, D+, or D- will be acceptable in all required courses in engineering, basic science, and computer science including all technical electives as stated in the catalogue for the junior and senior years.

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Electrical and Computer Engineering Department > Courses

## Courses in Electrical Engineering

### EE 001 - First-year Design Experience

Introduction to the engineering profession and design. Hands-on experiences that emphasize interdisciplinary teamwork, technical communications, and project design methodologies. Cross-listings: ME 1.

Credits: 2.

### EE 003 - Linear Circuit Analysis I

Circuit elements, laws, and analysis. Network principles and theorems. Energy-storage elements. Magnetically coupled circuits. Transient analysis and time constants. Prerequisite: MATH 022.

Credits: 3.

### EE 004 - Linear Circuit Analysis II

Sinusoids and phasors. Sinusoidal steady-state response and power. Complex frequency and network functions. Resonance. Laplace transform techniques. Fourier series and Fourier transforms. Prerequisite: EE 003. Co-requisite: MATH 271.

Credits: 3.

### EE 081 - Linear Circuits Laboratory I

Electrical instruments; oscilloscope measurements; resistive, capacitive, and inductive components; applications of operational amplifiers; digital-to-analog converters; transient response of RL and RC circuits. Co-requisite: EE 003.

Credits: 2.

### EE 082 - Linear Circuits Laboratory II

Transients in RLC circuits; steady state sinusoidal response in RLC circuits; real and reactive power in RLC circuits; operational amplifier active filters. Prerequisite: EE 081. Co-requisite: EE 004.

Education Credits: 2.

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**EE 094 - Bioengr Appl Phys Prin II**

Application of principles of electromagnetism and electrical engineering to understanding the structure and function of the human body and to diagnostic and therapeutic instrumentation. Not offered 2001-2002.

Credits: 4.

**EE 095 - Special Topics**

Prerequisite: Departmental permission.

Credits: 0-3.

**EE 100 - Electrical Engr Concepts**

Introduction to analog and digital electrical measurements and circuits; introduction to microprocessors. No credit for EE majors. Prerequisite: Physics 42 with 22 or 125.

Credits: 4.

**EE 101 - Digital Control w/Embedded Sys**

Applications of single-chip microcomputers as embedded systems for data acquisition/real time control. Assembly language; parallel and serial ports; timers; counters; A/D and D/A. Laboratory. Prerequisite: EE 100.

Credits: 4.

**EE 113 - Electromech Energy Gen & Dist**

Principles basic to electromechanical energy conversion devices and systems. Energy interchange among magnetic and mechanical circuit elements. Continuous energy conversion in ideal and practical rotating machines. Prerequisite: 141. Alternate years.

Credits: 3.

**EE 120 - Electronics I**

Theory of operation of diodes and MOS transistors. DC and transient analysis using diodes and transistors. NMOS and CMOS logic circuits and memory cells. Circuit simulation software. Prerequisite: EE 004.

Credits: 3.

**EE 121 - Electronics II**

Bipolar transistor circuits. DC and high frequency amplifier design using MOS and bipolar transistors. Feedback, oscillators, and stability criteria. Operational amplifiers and switched capacitor filters. Prerequisite: EE 120.

Credits: 3.

**EE 131 - Fundamentals of Digital Design**

Combinational logic simplification and design, MSI and PLD components, synchronous and asynchronous sequential design, algorithmic state machines, registers, counters, memory units, introduction to hardware design languages. Prerequisite: Sophomore standing.

Credits: 3.

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**EE 134 - Fund of Microcomp Based Syst**

In-depth study and applications of a modern microprocessor in embedded digital systems for real-time control and data acquisition. Assembly language and the design of interfaces. Prerequisites: 3 or 100, and Computer Science 16 or 21; EE 131 and Computer Science 101 desirable.

Credits: 4.

**EE 141 - Electromagnetic Field Theory I**

Basic laws and elementary applications of electromagnetic fields; vector analysis, steady-state electric and magnetic fields, boundary value problems, transmission lines. No credit may be received for both EE 140 (offered in prior years) and the current EE 141. Prerequisites: EE 4, Math. 271, Physics 42.

Credits: 3.

**EE 142 - Electromagnetic Field Thry II**

fields, waves and radiation; Maxwell's equations, Poynting's theorem, plane wave propagation, wave guides, antennas. Prerequisite: EE 141.

Credits: 3.

**EE 146 - Wave and Diffusion Analogies**

Not offered 2001-02.

Credits: 3.

**EE 163 - Solid State Phys Electronics I**

PHYS 022; MATH 271.

Credits: 4.

**EE 164 - Solid St Phys Electronics II**

Theory of operation of bipolar junction transistors. Heterojunction transistors. Compound and alloy semiconductor materials and devices. Dielectric and magnetic materials and devices. Prerequisite: EE 163.

Credits: 3.

**EE 171 - Signals & Systems**

Discrete and continuous-time signals and systems. Input/output descriptions and analysis. Convolution, Fourier analysis and Laplace transforms, Sampling and z-transforms. Application to electrical engineering design problems. Prerequisite: EE 004.

Credits: 4.

**EE 174 - Intro to Communication Systems**

Signal analysis. Wireless communication including modulation and link budget analysis. Fundamentals of digital communications including PCM, channel coding, pulse shaping and multiplexing. Modern systems survey. Prerequisite: EE 171.

Credits: 3.

**EE 183 - Electronics Laboratory I**

Characteristics and applications of diodes and MOSFETs; CMOS inverters and

logic characterization; applications of operational amplifiers. Co-requisite: EE 120.  
Credits: 2.

**EE 184 - Electronics Laboratory II**

Characteristics and applications of bipolar junction transistors; medium frequency and differential amplifiers; operational amplifier output stages; analog and digital  
Credits: 2.

**EE 185 - Systems and Applications Lab**

AC and DC machines; power transformers; electromagnetic waves on transmission lines; digital logic design; design project. Pre/co-requisites: Senior standing in Electrical Engineering.  
Credits: 2.

**EE 186 - Telecommunications Lab**

Telecommunication system measurement techniques. Spectral analysis, distortion, analog and digital modulation, eye patterns, signal constellations and bit error rate. Team project. Prerequisite: Senior standing in Electrical Engineering. Co-requisite: EE 174.  
Credits: 2.

**EE 187 - Professional Design Issues**

Project management, professional ethics, social/ economic impact, and contemporary issues that arise in engineering practice. Interdisciplinary project development including project selection, design requirements, prototyping and communications. Pre/co-requisite: Senior standing.  
Credits: 1-2.

**EE 188 - Major Design Experience**

Cumulative, team-based interdisciplinary design experience. Subsystem design, implementation and test. System integration and test. Project demonstration, report, and presentation. Pre/co-requisite: EE 187.  
Credits: 1-2.

**EE 193 - College Honors**

Credits: 3-6.

**EE 194 - College Honors**

Credits: 3-6.

**EE 195 - Special Topics**

Prerequisite: Departmental permission.  
Credits: 1-18.

**EE 201 - Linear System Theory**

Basic concepts in system theory; linear algebra; state space representation; stability; controllability and observability. Applications of these concepts.  
Prerequisites: EE 171 or Graduate standing.  
Credits: 3.



**EE 209 - Transient Phenomena**

criterion and two-dimensional field problems. Prerequisite: Study of complex variable basis of Laplace and Fourier Transforms; applications to transient behavior of lumped and distributed parameter systems, root locus. Nyquist 4. Not offered 2001-02.

Credits: 3.

**EE 210 - Introduction Control Systems**

Analysis and design of continuous and discrete-time control systems; stability, signal flow, performance criteria, classical and state variable methods, simulation design tools, computer-based realizations. Prerequisite: 171.

Credits: 3.

**EE 212 - Computer Vision**

MATH 271 and CS 026, or Instructor permission. Introduction to computer vision systems for interactive and industrial applications using both hard/software computational approaches. Pre/co-requisites: MATH 124 or Cross-listing: CS 212.

Credits: 3.

**EE 214 - Ubiquitous Cmpthg & Interaction**

Introduction to human computer interaction in the area of sensory intelligence with concentration to biofeedback, biometric analysis, human factor, wearable computing, mixed reality, and graphical user interfaces. Pre/co-requisites: CS 026; Senior/Graduate standing in Engineering, Math, or Computer Science; Instructor permission.

Credits: 3.

**EE 216 - Sensory based robotics**

Introduction to broad aspects on modern robotics, including industrial robotic hand, humanoid robot, personal robot, Senior/Graduate standing in Engineering, Mathematics, or Computer Science; Instructor permission.

Credits: 3.

**EE 221 - Prin VLSI Digital Circuit Des**

Design of VLSI circuits using a modular approach with industrial grade software: schematic capture; circuit design languages (HDL); full-custom layouts; mixed EE 131, 163,121.

Credits: 3.

**EE 222 - Prin VLSI Analog Cir Design**

The design, layout, and simulation of VLSI analog circuits. Emphasis on small signal models and circuits used in operational amplifiers. Prerequisites: EE 163, EE 121, Instructor permission.

Credits: 3.

**EE 224 - Principles VLSI System Design**

Survey of VLSI design. Architecture and partitioning of functions. Design for testability. Simulation including timing. Synthesis. Design verification;

manufacturing interface. Required team project and report. Prerequisites: EE 221 or Instructor permission.

Credits: 3.

### **EE 227 - Biomed Measmnts Instrum & Sys**

Biomedical and clinical engineering in research, industry, and health care institutions. Measurement techniques and instrumentation. Integrated biomedical monitoring, diagnostic, and therapeutic systems. Co-requisites: EE 121, ANPS 020; Instructor permission. Alternate years.

Credits: 3.

### **EE 228 - Sensors**

Sensor design, interrogation, and implementation. A wide variety of electrical, electronic, optical, mechanic, and cross-disciplinary devices. System designs, measurement techniques, and methodologies. Prerequisites: Senior standing in Engineering or Physics.

Credits: 3.

### **EE 231 - Digital Computer Design**

Hardware organization and realization, hard-wired and microprogrammed control units, interrupt and I/O systems. Hardware design language introduced and used for computer design. Prerequisites: EE 131, either EE 134 or CS 101.

Credits: 3.

### **EE 232 - Digital Computer Design II**

Memory designs, error control, high-speed addition, multiplication, and division, floating-point arithmetic, cpu enhancements, testing and design for testability.

Prerequisites: EE 231.

Credits: 3.

### **EE 233 - Microprocessor Systems & Appl**

Basic principles of mini/microcomputers; A/D; D/A; channels, magnetic devices, display devices, mechanical devices; interface designs of analog systems to mini/microcomputers; principles of microprogramming; bit-slice-based microcomputers. Prerequisites: Department permission; CS 101 desirable.

Credits: 4.

### **EE 241 - Electromagnetic Theory I**

Maxwell-Lorentz theory emphasizing uniqueness and conservation laws. Potential theory with applications to boundary value problems, Green's function techniques, multipole expansions, and numerical methods. Prerequisites: 141; Math. 272 recommended.

Credits: 3.

### **EE 242 - Electromagnetic Theory II**

Macroscopic Maxwell theory, boundary conditions and dispersion relations for spatio-temporal fields. Electromagnetic wave propagation, reflection and transmission, guided waves, radiation, scattering and diffraction phenomena.

Prerequisites: EE 241 or Instructor permission.

Credits: 3.

### **EE 245 - Lasers&Electro-Optical Devices**

A theoretical description of light-matter interactions in photon emitting resonant cavities. A practical understanding of laser design and operation. Prerequisite: 142.

Credits: 3.

### **EE 246 - Engineering Optics**

Applications of optics to the solution of engineering problems. Optical signal processing, fiber optic sensors, integrated optics. Prerequisites: EE 245 or Instructor permission.

Credits: 3.

### **EE 247 - Physical Optics I**

Fundamental properties of the optical field. Molecular optics and the Ewald-Oseen extinction theorem. Foundations of geometrical optics. Diffraction and aberration theory. Prerequisites: 142, or Physics 214.

Credits: 3.

### **EE 248 - Physical Optics II**

Partially coherent light and the Van-Cittert Zernike theorem. Rigorous diffraction theory, the optics of metals and crystal optics. Prerequisite: EE 247.

Credits: 3.

### **EE 250 - Test Engineering**

Parametric, structural, functional, characterization and stress testing of components and subsystems. Test methods, strategies, planning, and economics. Test equipment hardware and software. Prerequisites: 121, 131. Alternate years.

Credits: 3.

### **EE 251 - Digital Syst Testing & Design**

Circuit failures, fault models, testing and test pattern generation, logic and fault simulation, design for testability, scan design, test interfaces, design for built-in self-test. Prerequisite: 131. Alternate years.

Credits: 3.

### **EE 261 - Solid State Mat & Devices I**

Energy band theory, effective mass, band structure and electronic properties of semiconductors. Transport of electrons and holes in bulk materials and across interfaces. Homojunctions, heterojunctions, and Schottky barriers. Prerequisite: EE 163.

Credits: 3.

### **EE 262 - Solid State Mats & Devices II**

Multijunction and interface devices. Heterostructure and optical devices. Dielectric and optical properties solids. High-frequency and high-speed devices. Prerequisite: EE 261.

Credits: 3.

**EE 266 - Science & Tech Integrated Cir**

Science and technology of integrated circuit fabrication. Interaction of processing with material properties, electrical performance, economy, and manufacturability.

Prerequisites: EE 163 or EE 261; concurrent registration in EE 164 or EE 262.

Credits: 3.

**EE 270 - Prob Thry & Stochastic Process**

(Same as Statistics 270.) Probability theory, random variables, and stochastic processes. Response of linear systems to random inputs. Applications in electrical engineering. Prerequisite: 171 or equivalent.

Credits: 3.

**EE 271 - Sig Proc:Det & Est**

nonlinear least squares estimation, smoothing and prediction, computational aspects, Kalman filtering, nonlinear filtering, parameter identification, and adaptive filtering. Prerequisites: 201, 270.

Credits: 3.

**EE 272 - Information Theory**

Introduction to probability concepts of information theory; entropy of probability models; theoretical derivations of channel capacity; coding methods and theorems, sampling theorems. Prerequisite: Statistics 151. Not offered 2001-02.

Credits: 3.

**EE 273 - Digital Communications**

STAT 151. Digital modulation/demodulation methods and BER performance; convolutional codes and decoding algorithms. Pre/corequisites: EE 174, and EE 270 or STAT 143 or

Credits: 3.

**EE 274 - Intro Wavelets & Filter Banks**

and biorthogonal filter banks. Wavelets from filters. Continuous and discrete-time signal processing. Continuous wavelet transform. Series expansion of continuous and discrete-time signals. Perfect reconstruction, orthogonal Prerequisites: 171, or instructor's permission. Cross-listing: Math 278.

Credits: 3.

**EE 275 - Digital Signal Processing**

Sampling and reconstruction of signals. DFT, FFT and the z-transform. FIR and IIR filter design. Speech coding. Accompanying lab: 289. Pre/co-requisites: 171, permission.

Credits: 3.

**EE 276 - Image Processing & Coding**

Image enhancement techniques by point and spatial operations. Data compression techniques to include scalar quantization, entropy coding, transform and sub-band coding. Labs on PC hardware; PC and Unix-based software.

Prerequisites: 275; 270 recommended.

Credits: 4.

**EE 277 - Image Anyl&Pattern Recognition**

Image, shape, and texture analysis. Statistical pattern recognition methods.

Pattern recognition and computer vision techniques for machine parts recognition and automatic visual inspection. Prerequisite: EE 276.

Credits: 3.

**EE 278 - Wireless Communication Systems**

Modern wireless systems, including cellular design, propogation modeling, multiple access and equalization techniques. Pre/co-requisites: Pre: EE 174 and (EE 270 or STAT 143 or STAT 151 or STAT 153)

Credits: 3.

**EE 281 - Materials Science Seminar**

Presentation and discussion of advanced electrical engineering problems and current developments. Prerequisite: Senior or Graduate Engineering enrollment.

Credits: 1.

**EE 282 - Seminar**

Credits: 1.

**EE 283 - Seminar**

Credits: 1.

**EE 284 - Seminar**

Credits: 1.

**EE 285 - Engr Design Anyl & Synthesis**

Advanced engineering problem solving, analytical techniques and simulations involving control systems, digital electronics, computer hardware and software; technical writing and documentation emphasized. Prerequisites: Graduate standing in EE or department permission.

Credits: 3.

**EE 289 - Digital Signal Processing Lab**

Design and microprocessor implementation of real-time digital signal processing systems. PC-based evaluation module and development tools. Experiments include sampling, digital filtering, and the FFT. Pre/co-requisite: EE 171.

Credits: 1-3.

**EE 295 - Special Topics**

Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines, or systems. Prerequisite: 4.

Credits: 3.

**EE 310 - Digital Control Systems**

Digital control system analysis and design using transform, algebraic, and state

space methods. Sampled data systems, stability, quantization effects, sample rate selection, computer-based realization. Prerequisite: EE 210 or Instructor permission.

Credits: 3.

### **EE 312 - Intro Optimum Control Systems**

Optimal control problem formulation and solution; including the calculus of variations, Pontryagin's maximum principle, Hamilton-Jacob theory, dynamic programming, and computational methods. Prerequisite: EE 210.

Credits: 3.

### **EE 314 - Nonlinear System Theory**

Basic nonlinear methods including computational and geometrical techniques for analysis of nonlinear systems. Describing function methods and bifurcation and catastrophe theory. Sensitivity and stability considerations. Prerequisite: EE 201 or MATH 230.

Credits: 3.

### **EE 315 - Nonlinear System Theory**

Basic nonlinear methods including computational and geometrical techniques for analysis of nonlinear systems. Describing function methods and bifurcation and catastrophe theory. Sensitivity and stability considerations. Prerequisite: EE 201 or MATH 230.

Credits: 3.

### **EE 338 - Semiconductor Dev Model&Simul**

Analysis and application of computer models for semiconductor process and device simulation. Strategies for development of device models for circuit simulation. Prerequisite: EE 262; Instructor permission.

Credits: 3.

### **EE 340 - ST:Electromagnetic Field Thry**

For advanced students in the field of electromagnetism. Topics selected from special interests of staff with lectures and readings from current literature.

Credits: 3.

### **EE 341 - ST:Electromagnetic Field Thry**

For advanced students in the field of electromagnetism. Topics selected from special interests of staff with lectures and readings from current literature.

Credits: 3.

### **EE 352 - Adv Semicond Device Phys & Des**

MOSFET, bipolar, and CMOS device parameters, their characterization, and their relation to process technology. Description and use of computer-aided process and device models. Prerequisite: EE 262. Alternate years. Spring semester.

Credits: 3.

### **EE 354 - MOS Analog Intergrtd Circ Dsgn**

Analysis and design of MOS analog integrated circuits. Each student will design,

layout, test, and document an analog integrated circuit using computer-aided-design techniques. Prerequisite: EE 338, EE 339.

Credits: 3.

**EE 365 - Optical Properties of Solids**

Optical and optoelectronic properties of semiconductors. Applications to photodetectors, solar cells, light emitting diodes and lasers. Prerequisites: 242, 262, Physics 273.

Credits: 3.

**EE 366 - Solid State & Semicond Thry I**

Energy band theory for electrons and phonons in crystalline solids. Brillouin zones. Conservation laws. Elements of statistical mechanics. Transport properties. Applications to semiconductor electronics. Prerequisite: EE 261, PHYS 273 or CHEM 263.

Credits: 3.

**EE 373 - Digital Communication**

Source entropy and channel capacity; signal representation; optimal detector for Gaussian channels; digital block/convolutional codes; Viterbi algorithm; real channels. Prerequisites: 174, 270, 373 for 374.

Credits: 3.

**EE 378 - St:Stat Comm & Related Fields**

Coding for communication or computer systems, pattern recognition and learning machines, artificial intelligence, etc., selected from special interests of staff with lectures and readings from current literature. Prerequisite: Instructor permission.

Credits: 3.

**EE 391 - Master's Thesis Research**

Credits: 1-18.

**EE 395 - Advanced Special Topics**

Advanced topics of current interest in electrical engineering. Prerequisite: Instructor permission.

Credits: 1-6.

**EE 491 - Doctoral Dissertation Research**

Credits: 1-18.

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Engineering Management Program

## Engineering Management Program

### Contact Information

*University of Vermont  
Engineering Management Program  
School of Business Administration  
Kalkin Building  
Burlington, VT 05405*

Phone: (802) 656-8367

Fax: (802) 656-8279

Email: [Larry.Shirland@uvm.edu](mailto:Larry.Shirland@uvm.edu)

[Web Site](#)

### Overview

A curriculum in Engineering Management leading to the degree of Bachelor of Science in Engineering Management is offered in cooperation with the School of Business Administration. Engineering management is a broad discipline concerned with the art and science of planning, organizing, directing, and controlling activities that have a technical component. Designing, producing, selling, and servicing products in the marketplace require managers who possess both an ability to apply engineering principles and a skill in managing technical projects and people in technical jobs. The curriculum is designed to provide a basic education in an engineering discipline with the study of management concepts and techniques. The curriculum incorporates the equivalent of one-half year of study in the area of the humanities and social sciences. Candidates for this degree must earn a minimum of 128 semester hours, depending upon the engineering concentration selected, plus two credits of physical education

### In This Department

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Education

activities. Engineering Management students are reminded that they must choose one HSS elective from the list of approved cultural diversity courses.

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

### Affiliations

- Colleges and Schools: College of Engineering and Mathematics.

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## Engineering Management Program: Academic Offerings

- [Engineering Management: Civil Engineering \(B.S.\)](#)
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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Engineering Management Program > Academic Offerings > Engineering Management: Civil Engineering (B.S.)

## Engineering Management: Civil Engineering (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Engineering Curricula](#)

### Specific Requirements

#### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">MATH 021 - Calculus I</a>	4	
HSS Elective	3	3
Physical Education Elective	1	1
<a href="#">EC 011 - Principles of Macroeconomics</a>		3
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
<a href="#">PHYS 031 - Introductory Physics</a>		4
Total	17	16
SOPHOMORE		
Course	Term	

Education		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 060 - Financial Accounting</u>	4	
• Graduate College	<u>CE 001 - Statics</u>	3	
	<u>CE 010 - Geomatics</u>	3	
• Honors College	<u>CE 012 - Geomatics Lab</u>	1	
	<u>EC 012 - Principles of Microeconomics</u>	3	
• School of Business Administration	<u>MATH 121 - Calculus III</u>	4	
	<u>BSAD 061 - Managerial Accounting</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>CE 011 - Computer-Based Tools for CE</u> or <u>CS 016 - Prog MATLAB Engineers&amp;Science</u>		4
	<u>MATH 271 - Applied Math</u>		3
Policies and General Information	<u>ME 012 - Dynamics</u>		3
	<u>ME 014 - Mechanics of Solids</u>		3
Faculty and Administration	Total	18	17
Catalogue Archives	<b>JUNIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 120 - Management &amp; Organ Behav</u>	3	
	<u>CE 160 - Hydraulics</u>	4	
	<u>CE 140 - Transportation</u>	3	
	<u>PHYS 22 - Introductory Lab II</u>	1	
	<u>PHYS 42 - Electromagnetism &amp; Modern Phys</u>	4	
	<u>BSAD 141 - Management Info Systems</u>		3
	<u>BSAD 173 - Production &amp; Operations Analysis</u>		3
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3
	<u>CE 170 - Structural Analysis</u>		4
	<u>STAT 143 - Stat for Engineers; or</u> <u>STAT 211 - Stat Methods I</u>		3
	Total	15	16
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 178 - Quality Control</u> or <u>STAT 224 - Statistics for Qual &amp; Prod</u>	3	
	<u>CE 150 - Environmental Engr</u>	3	
	<u>EE 100 - Electrical Engr Concepts</u>	4	
	<u>EMGT 185 - Senior Project</u>	3	
	HSS Elective	3	
	<u>BSAD - 270 Quant Analysis</u>		

or <u>BSAD 272 - Discrete Simulation</u>		3
HSS Elective		3
CE Conc Elective <sup>1</sup>		3-4
Engr Mgmt Electives <sup>2</sup>		6
Total	16	15-16
TOTAL CREDITS: 130-131		

**Notes:**

1. CE Concentration Electives: CE 151, CE 161, CE 171, CE 172, CE 175, CE 180, CE 260, CE 261, and ME 040 with ME 044.
2. Engineering Management Electives: BSAD 143, BSAD 144, BSAD 145, BSAD 168, BSAD 170, BSAD 174, BSAD 177, BSAD 192; and Statistics STAT 221, STAT 224, STAT 225, STAT 229, STAT 231, STAT 233, STAT 237, STAT 253; EMGT 175.

**Affiliations**

- Colleges and Schools: College of Engineering and Mathematics.
- Departments and Programs: Engineering Management Program.

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Engineering Management Program > Academic Offerings > Engineering Management: Electrical Engineering (B.S.)

## Engineering Management: Electrical Engineering (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Engineering Curricula](#)

### Specific Requirements

#### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">CS 021 - Computer Programming I</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
<a href="#">EE 001 - Design Exp</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
<a href="#">PHYS 031 - Introductory Physics</a>		4
HSS Electives		6
Total	17	17
SOPHOMORE		
Course	Term	

Education		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 060 - Financial Accounting</u>	4	
• Graduate College	<u>EC 011 - Principles of Macroeconomics</u>	3	
• Honors College	<u>EE 003 - Linear Circuit Analysis I</u>	3	
	<u>EE 081 - Linear Circuits Laboratory I</u>	2	
• School of Business Administration	<u>MATH 121 - Calculus III</u>	4	
	Physical Education Elective	1	
• The Rubenstein School of Environment and Natural Resources	<u>BSAD 061 - Managerial Accounting</u>		4
	<u>EE 004 - Linear Circuit Analysis II</u>		3
	<u>EE 082 - Linear Circuits Laboratory II</u>		2
	<u>MATH 271 - Applied Math for Engr &amp; Scientists</u>		3
	<u>PHYS 022 - Introductory Lab II</u>		1
Policies and General Information	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>		4
	Total	17	17
Faculty and Administration	<b>JUNIOR</b>		
	<b>Course</b>	<b>Term</b>	
Catalogue Archives		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 141 - Mgmt Info Systems</u>	3	
	<u>EC 012 - Principles of Microeconomics</u>	3	
	<u>EE 131 - Fundamentals of Digital Design</u>	3	
	<u>EE 120 - Electronics I</u>	3	
	<u>STAT 143 - Stat for Engineers</u> or <u>STAT 211 - Stat Methods I</u>	3	
	Physical Education	1	
	<u>BSAD 173 - Production &amp; Operations Analysis</u>		3
	<u>CE 125 - Eng Econ &amp; Decision Analyses</u>		3
	<u>EE 121 - Electronics II</u>		3
	<u>EE 134 - Fund of Microcomp Based Syst</u>		4
	HSS Elective		3
	Total	16	16
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 120 - Prin Mgmt &amp; Org Behavior</u>	3	
	<u>BSAD 178 - Quality Control</u> or <u>STAT 224 - Statistics for Qual &amp; Prod</u>	3	
	<u>EE 163 - Solid State Phys Electronics I</u> or <u>EE 171 - Signals &amp; Systems</u>	4	



<u>EMGT 185 - Senior Project</u>	3	
HSS Elective	3	
<u>BSAD 270 - Quant Analysis</u> or <u>BSAD 272 - Discrete Simulation</u>		3
<u>EE 231 - Digital Computer Design</u>		3
EE Conc Elective <sup>1</sup>		3-4
Engineering Management Elective <sup>2</sup>		6
Total	16	15-16

**Total Credits:** 131-132

### Notes:

1. EE Concentration Electives: EE 113, EE 141, EE 163 (if not used to fulfill another requirement), EE 164 (EE 163 is prerequisite), EE 171 (if not used to fulfill another requirement), EE 174 (171 is prerequisite), EE 183 and EE 184 (both courses are needed to meet this requirement), EE 210, EE 228, EE 250, EE 251, and EE 295.
2. Engineering Management Electives: BSAD 143, BSAD 144, BSAD 145, BSAD 168, BSAD 170, BSAD 174, BSAD 177, BSAD 192; EMGT 175; and STAT 221, STAT 224, STAT 225, STAT 229, STAT 231, STAT 233, STAT 237, STAT 253.

### Affiliations

- o Colleges and Schools: College of Engineering and Mathematics.
- o Departments and Programs: Engineering Management Program.

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## Engineering Management: Mechanical Engineering (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Engineering Curricula](#)

### Specific Requirements

#### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Intro to Chemistry</a>	4	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">MATH 021 - Calculus I</a>	4	
HSS Electives	3	3
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">ME 001 - Design Exp</a>		2
<a href="#">PHYS 21 - Introductory Lab I</a>		1
<a href="#">PHYS 031 - Introductory Physics</a>		4
Physical Education Elective/td>		1
Total	16	15
SOPHOMORE		
Course	Term	

		Fall	Spring
Education	<u>BSAD 060 - Financial Acctng</u>	4	
• Graduate College	<u>EC 011 - Principles of Macroeconomics</u>	3	
• Honors College	<u>MATH 121 - Calculus III</u>	4	
	<u>ME 040 - Thermodyn and Heat Transfer</u>	3	
• School of Business Administration	Physical Education Electives	1	
	<u>BSAD 061 - Managerial Acctng</u>		4
• The Rubenstein School of Environment and Natural Resources	<u>MATH 271 - Applied Math</u>		3
	<u>ME 114 - Intro Engineering Mechanics</u>		3
	<u>ME 082 - Mech Engineering Lab I</u>		3
	<u>PHYS 022 - Introductory Lab II</u>		1
	<u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>		4
Policies and General Information	Total	15	18
	<b>JUNIOR</b>		
Faculty and Administration	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
Catalogue Archives	<u>BSAD 141 - Mgmt Info Systems</u>	3	
	<u>EC 12 - Prin of Economics</u>	3	
	<u>EE 100 - Elect Engr Concepts I</u>	4	
	<u>MATH 124 - Linear Algebra</u>	3	
	<u>ME 161 - Manufacturing Engineering I</u>	3	
	<u>BSAD 173 - Prod &amp; Oper Analy</u>		3
	<u>CE 125 - Engr Economics</u>		3
	<u>ME 162 - Manufacturing Engineering II</u>		3
	<u>ME 171 - Design of Elements</u>		3
	<u>STAT 143 - Stat for Engineers</u> or <u>STAT 211 - Stat Methods I</u>		3
	Total	16	15
	<b>SENIOR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>BSAD 120 - Mgmt &amp; Organ Behav</u>	3	
	<u>BSAD 178 - Quality Control</u> or <u>STAT 224 - Statistics for Qual &amp; Prod</u>	3	
	<u>EMGT 185 - Senior Project</u>	3	
	<u>ME 101 - Engineering Materials I</u>	3	
	HSS Electives	3	3
	<u>BSAD 270 - Quant Analysis; or</u> <u>BSAD 272 - Discrete Simulation</u>		3

Engineering Management Elective <sup>2</sup>		6
ME Elective <sup>1</sup>		3
Total	15	15

**Total Credits:** 125

**Notes:**

1. ME electives: ME 200-level or higher.
2. Engineering Management electives: [BSAD 143](#), [BSAD 144](#), [BSAD 145](#), [BSAD 168](#), [BSAD 170](#), [BSAD 174](#), [BSAD 177](#), [BSAD 192](#); [EMGT 175](#); and [STAT 221](#), [STAT 224](#), [STAT 225](#), [STAT 229](#), [STAT 231](#), [STAT 233](#), [STAT 237](#), [STAT 253](#).

**Affiliations**

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## Courses in Engineering Management

### EMGT 175 - The Management of Technology

Role of technology in industry, the nature of technological change, strategies, management, research and development, forecasting, product service/project selection, development, management, transition to market, and evaluation.

Prerequisites: Senior standing in Engineering or Business Administration. Cross-listed with: BSAD 175.

Credits: 3.

### EMGT 176 - Plant Planning and Design

Analysis of facilities and services requirements, material handling, office and clean room layout, mathematical and computer techniques, safety and plant conservation. Prerequisites: Junior standing in Engineering or Business Administration or Instructor permission.

Credits: 4.

### EMGT 185 - Senior Project

Individual management engineering study designed to the particular interest of the student, utilizing and synthesizing the student's engineering management education experience. Prerequisite: Senior standing in EMBA.

Credits: 3.

### EMGT 195 - Special Topics

Specialized or experimental course offered as resources permit.

Credits: 3.

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Mathematics and Statistics Department

## Mathematics and Statistics Department

### Contact Information

*University of Vermont  
Mathematics and Statistics Department  
16 Colchester Ave  
Burlington, VT 05405*

Phone: (802) 656-2940

Fax: (802) 656-2552

Email: [James.Burgmeier@uvm.edu](mailto:James.Burgmeier@uvm.edu)

[Web Site](#)

### Overview

Students can concentrate in mathematics or statistics while pursuing a broad foundation in the liberal arts in the Department of Mathematics and Statistics. It is possible to earn a second degree in any college combining mathematics and statistics with other disciplines. The Department also offers accelerated five-year B.S./M.S. programs.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).

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## Mathematics and Statistics Department: Academic Offerings

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- [Mathematics: Applied \(Minor\)](#)
- [Mathematics: Applied and Interdisciplinary Mathematics \(B.A.\)](#)
- [Mathematics: Pure \(Minor\)](#)
- [Mathematics: Statistics \(B.A.\)](#)
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## Mathematics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

[MATH 21](#), [MATH 22](#), [MATH 121](#), [MATH 52](#), and [MATH 124](#), plus 18 additional credits in Math./Statistics courses at 100 level or above, with at least 12 hours numbered 200 or higher.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Engineering and Mathematics](#).
- Departments and Programs:[Mathematics and Statistics Department](#).

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## Mathematics (Bachelor of Science)

### Overview

In addition to the Bachelor of Science degree described here, the Department of Mathematics and Statistics also offers a Bachelor of Arts degree in the College of Arts and Sciences. A faculty advisor from Mathematics will assist students in determining which degree program best suits their individual needs and plans. Some of the career plans for which a well-designed major in mathematics can provide ideal preparation are highlighted below.

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mathematics and Statistics Requirements for the Bachelor of Science](#)

### Specific Requirements

### Recommendations for Major Courses

In consultation with their advisor, students should choose an area of interest within the mathematics major and plan a coherent program that addresses their interests in mathematics and its applications. This area might be one of those listed below, or it might be another area suggested by the student. As a guide, students interested in one of the areas would typically take at least three courses in that area, including all of the courses marked with an asterisk (\*). In addition, students should take courses from at least two other areas. Because of its centrality in mathematics, students should make sure that they take at least one course listed under Classical Mathematics. In following these recommendations, a course listed in more than one area is meant to be counted only once.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

## Policies and General Information

## Faculty and Administration

## Catalogue Archives

1. **Classical Mathematics**

Classical mathematics encompasses those areas having their roots in the great traditions of mathematical thought, such as geometry and topology, mathematical analysis, algebra and number theory, and discrete mathematics. Courses in this area include the following: [MATH 141](#), [MATH 151](#), [MATH 173](#), [MATH 236](#), [MATH 240](#), [MATH 241\\*](#), [MATH 242](#), [MATH 251\\*](#), [MATH 252](#), [MATH 255](#), [MATH 257](#), [MATH 260](#), [MATH 264](#), [MATH 273](#), [MATH 331](#), [MATH 353](#).

2. **Applied Mathematics**

Applied Mathematics involves the use of mathematical methods to investigate problems originating in the physical, biological, and social sciences, and engineering. Mathematical modeling, coupled with the development of mathematical and computational solution techniques, illuminates mechanisms which govern the problem and allows predictions to be made about the actual physical situation. Current research interests of the faculty include biomedical mathematics, fluid mechanics and hydrodynamic stability, asymptotics, and singular perturbation theory. Courses in this area include the following: [MATH 230\\*](#), [MATH 236](#), [MATH 237\\*](#), [MATH 238](#), [MATH 240](#), [MATH 272](#), [MATH 273](#), [MATH 274](#).

3. **Computational Mathematics**

Computational mathematics involves both the development of new computational techniques and the innovative modification and application of existing computational strategies to new contexts where they have not been previously employed. Intensive computation is central to the solution of many problems in areas such as applied mathematics, number theory, engineering, and the physical, biological and natural sciences. Computational mathematics is often interdisciplinary in nature, with algorithm development and implementation forming a bridge between underlying mathematical results and solution of the physical problem of interest. Courses in this area include the following: [MATH 173](#), [MATH 230](#), [MATH 237\\*](#), [MATH 238](#), [MATH 274](#), [STAT 201](#).

4. **Theory of Computing**

The mathematical theory of computing deals with the mathematical underpinnings allowing effective use of the computer as a tool in problem solving. Aspects of the theory of computing include: designing parallel computing strategies (graph theory), analyzing strengths and effectiveness of competing algorithms (analysis of algorithms), examining conditions which ensure that a problem can be solved by computational means (automata theory and computability), and rigorous analysis of run times (complexity theory). Courses in this area include the following: [MATH 173](#), [MATH 223](#), [MATH 224\\*](#), [MATH 243](#), [MATH 273](#), [MATH 325](#), [CS 346](#), [CS 353](#).

## 5. **Mathematics of Management**

Mathematics of Management involves the quantitative description and study of problems particularly concerned with the making of decisions in an organization. Problems are usually encountered in business, government, service industries, etc., and typically involve the allocation of resources, inventory control, product transportation, traffic control, assignment of personnel, and investment diversification. Courses in this area include the following: MATH 173, MATH 221\*, MATH 222, MATH 230, MATH 236, MATH 273, STAT 141 or STAT 211, STAT 151 or MATH 207, STAT 224, STAT 241, STAT 253.

## 6. **Actuarial Mathematics**

Actuaries use quantitative skills to address a variety of problems within business environments, and especially within the life insurance industry. Two professional organizations sponsor qualifying examinations and grant recognition to actuaries in the U.S. and Canada. A unique feature of the actuarial profession is that formal training is typically completed after graduation "on-the-job." Students planning an actuarial career can prepare for and complete some actuarial examinations prior to graduation. Several departmental courses serve as preparation for the examinations: MATH 21, MATH 22, MATH 121, and MATH 124 for the first examination; STAT 141 or STAT 211, {STAT 151 or MATH 207}\*, and {STAT 241 or 261}\* for the second examination; STAT 221 or STAT 231, STAT 225, and STAT 253 for the third examination; MATH 221, MATH 222, and STAT 252 b for the fourth examination: and MATH 237 for the fifth examination.

## 7. **Probability and Statistical Theory**

Probabilistic reasoning is often a critical component of practical mathematical analysis or risk analysis and can usefully extend classical deterministic analysis to provide stochastic models. It also provides a basis for statistical theory, which is concerned with how inference can be drawn from real data in any of the social or physical sciences. Courses in this area include the following: MATH 222, MATH 241, MATH 242, (STAT 151 or MATH 207)\*, STAT 241\*, STAT 252 a, STAT 252 b, STAT 261, STAT 262, STAT 270.

## **Recommendations for Allied Field Courses**

Students who select the Applied and Interdisciplinary Mathematics option are required to consult with their advisor in setting up their concentration in an Allied Field, as described under requirements B. Students who select the General Mathematics option should also discuss Allied Field courses with their advisor and choose ones which complement their mathematical interests. Students with certain mathematical interests are advised to emphasize an appropriate Allied Field as indicated below and take at least six hours in courses numbered 100 or above in that field.

### **Applied Mathematics:**

See [Allied Fields](#) under Mathematics and Statistics degree requirements.

### Computational Mathematics:

Allied Field (4) or (5).

### Mathematics of Management:

Allied Field (7). Students interested in Mathematics of Management are advised to include Economics [EC 11](#) and [EC 12](#) in their choice of Humanities and Social Sciences courses, and to include Business Administration [BSAD 60](#) and [BSAD 61](#) in their choice of Allied Field courses. Those wishing to minor in Business Administration should contact the School of Business Administration and also take Business Administration [BSAD 173](#) and two other courses chosen from Business Administration [BSAD 168](#), [BSAD 170](#), [BSAD 174](#), [177](#), [BSAD 178](#), and [BSAD 272](#).

### Affiliations

- Colleges and Schools:[College of Engineering and Mathematics](#).[College of Arts and Sciences](#).
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## Mathematics: Applied (Undergraduate Minor)

### Specific Requirements

Fifteen hours of mathematics courses numbered MATH 52 or higher, including one of [MATH 230](#), [MATH 237](#), or [MATH 271](#).

### Affiliations

- [Colleges and Schools: College of Arts and Sciences. College of Engineering and Mathematics.](#)
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## Mathematics: Applied and Interdisciplinary Mathematics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

This concentration combines a major in applied mathematics with an approved minor that emphasizes the application of mathematics. Such minors include various disciplines in the physical, life, and earth sciences, the social sciences, and business. A student may expand the approved minor to form a double major with mathematics. The requirements for this option are: (a) [MATH 21](#), [MATH 22](#), [MATH 121](#), [CS 21](#), [MATH 124](#), [MATH 230](#), and [MATH 237](#); (b) at least nine additional hours in mathematics, statistics, or computer science courses number 100 or above, at least three of which must be in mathematics or statistics, at least six of which must be numbered 200 or above; (c) an approved minor. Parts (b) and (c) must form a coherent program that has the written approval of the student's faculty advisor in the Mathematics and Statistics Department.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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## Mathematics: Pure (Undergraduate Minor)

### Specific Requirements

Math 21 (or equivalent), [MATH 22](#), [MATH 52](#) or [MATH 121](#), and nine additional credits in Mathematics courses numbered 100 or above. Computer Science or Computer Engineering majors may substitute MATH 54 for [MATH 52](#). The course plan for a mathematics minor must be approved by a mathematics faculty advisor.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#). [College of Engineering and Mathematics](#).
- Departments and Programs: [Mathematics and Statistics Department](#).

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Mathematics and Statistics Department > Academic Offerings > Mathematics: Statistics (B.A.)

## Mathematics: Statistics (Bachelor of Arts)

### General Requirements

- [College of Arts and Sciences Requirements for the Bachelor of Arts](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Computer Science 21. Thirty-three hours of Mathematics/Statistics courses numbered 21 or higher, including [MATH 121](#) and [MATH 124](#), and [STAT 141](#) or [STAT 143](#) or [STAT 211](#), [STAT 151](#) or [STAT 251](#), [STAT 201](#), [STAT 221](#) or [STAT 227](#), [STAT 241](#) or [STAT 261](#), and [STAT 281](#) or [STAT 293](#). At least 12 ours must be at the 200 level or higher.

### Affiliations

- Colleges and Schools:[College of Arts and Sciences](#).[College of Engineering and Mathematics](#).
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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Mathematics and Statistics Department > Academic Offerings > Mathematics: Statistics (B.S.)

## Mathematics: Statistics (Bachelor of Science)

### Overview

Students receiving the B.S. in Mathematics may elect Statistics as their major. In addition, students receiving a B.A. degree in Arts and Sciences may concentrate in Statistics as a part of their Mathematics major. Statistics is a mathematical science extensively used in a wide variety of fields. Indeed, every discipline which gathers and interprets data uses statistical concepts and procedures to understand the information implicit in their data base. Statisticians become involved in efforts to solve real world problems by designing surveys and experimental plans, constructing and interpreting descriptive statistics, developing and applying statistical inference procedures, and developing and investigating stochastic models or computer simulations. To investigate new statistical procedures requires a knowledge of mathematics and computing as well as statistical theory. To apply concepts and procedures effectively also calls for an understanding of the field of application.

The curriculum is designed for students who plan to enter business, industry, or government as statisticians; to become professional actuaries; or to continue on to graduate school in statistics/biostatistics or another field where a quantitative ability can prove valuable (business, operations research, medicine, public health, demography, psychology, etc.). The courses and curricula are administered through the Statistics Program Steering Committee which includes faculty from Statistics, College of Medicine Medical Biostatistics and Bioinformatics Facility, Natural Resources, and the Agricultural Experiment Station. Students are encouraged to undertake special projects to gain experience in data analysis, design, and statistical computing. Also, experience can be gained with local industry and other organizations for those interested in quality control, industrial statistics, survey and market research or forecasting, for example.

Statistics majors may also minor in Mathematics by completing [MATH 021](#), [MATH 022](#), [MATH 052](#) or [MATH 121](#), and 9 more credits in mathematics at the 100-level or above.

- Education
- Since Statistics majors normally take [MATH 021](#), [MATH 022](#), [MATH 121](#) and [MATH 124](#), they just need two more mathematics courses at the 100-level or above.
- Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources
- Students earning the B.S. in Mathematics may earn a double major in Mathematics and Statistics by meeting the requirements of the Statistics major and earning an additional 18 credits in Mathematics, to include one of [MATH 141](#), [MATH 241](#), [MATH 151](#) or [MATH 251](#).
- Further details on the Statistics major and minor curricula may be obtained from the Director of the Statistics Program. The Handbook for Mathematics and Statistics majors, available from the Mathematics and Statistics department office, also provides a wealth of useful information.

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## General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mathematics and Statistics Requirements for the Bachelor of Science](#)

## Specific Requirements

### Premedical Concentration in Statistics

Each student electing the Premedical Concentration in Statistics will fulfill the general requirements for the Statistics major. Statistics 200 is recommended as an important elective for students interested in medicine or allied health. In addition, the premedical concentration should include as a minimum two years of chemistry with laboratory ([CHEM 031](#), [CHEM 032](#), or [CHEM 035](#), [CHEM 036](#), [CHEM 037](#), [CHEM 038](#), and [CHEM 141](#), [CHEM 142](#)), at least one year of physics with laboratory ([PHYS 021](#), [PHYS 031](#), [PHYS 022](#), [PHYS 042](#) or [PHYS 021](#), [PHYS 031](#), [PHYS 125](#)), and at least one year of biology with laboratory ([BIOL 001](#), [BIOL 002](#)). Exposure to medical research problems may be provided through supervised experiences in the College of Medicine Medical Biostatistics and Bioinformatics Facility.

### Concentration in Quality

Students interested in methods of quality control and quality improvement are encouraged to develop a concentration in quality. [STAT 224](#): Statistics in Quality and Productivity is regularly offered. Related courses to consider include Business Administration 178 and others in the Production and Operations Management and Quantitative Methods area of Business Administration. Project experience in industrial quality control or in health care quality can be gained in [STAT 191](#) and [STAT 281](#), or [STAT 293-294](#).

### Affiliations

- Colleges and Schools:[College of Engineering and Mathematics](#).[College of Arts and Sciences](#).
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## Statistics (Undergraduate Minor)

### Specific Requirements

A Statistics Minor consists of 15 credits of statistics (STAT) courses, acquiring calculus knowledge equivalent to [MATH 019](#) or [MATH 021](#), and gaining computer experience equivalent to [STAT 201](#) or a computer programming course ([CS 016](#) or higher or [MATH 052](#)). [EC 170](#): Economic Methods can also be counted in place of [STAT 111](#) or [STAT 140](#) as an introductory statistics course. Not more than seven credits of introductory Statistics [STAT 011/STAT 051/STAT 111/STAT 140/STAT 141/STAT 143/STAT 211](#) or [EC 170](#) may be counted. The course plan for the Statistics Minor must be approved by a Statistics faculty advisor. See more complete guidelines at [Statistics Minor Web site](#) .

Note that Mathematics majors can minor in Statistics as well. In Arts and Sciences you must earn 12 of your 15 credits in statistics beyond any statistics courses counted in your major courses. In Engineering and Mathematics you must earn 15 credits in statistics beyond any statistics courses.

### Affiliations

- Colleges and Schools: [College of Arts and Sciences](#), [College of Engineering and Mathematics](#).
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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Mathematics and Statistics Department > Requirements > Mathematics and Statistics Requirements for the Bachelor of Science

## Mathematics and Statistics Requirements for the Bachelor of Science

**Mathematics:** [MATH 021](#), [MATH 022](#), [MATH 121](#), [MATH 052](#), [MATH 124](#), [MATH 241](#), [MATH 251](#), and [CS 021](#).

**Statistics:** [MATH 021](#), [MATH 022](#), [MATH 121](#), [MATH 124](#); [CS 21](#); and one of [STAT 141](#), [STAT 143](#) or [STAT 211](#), [STAT 151](#) or [STAT 251](#), [STAT 201](#), [STAT 221](#) or [STAT 227](#), [STAT 241](#) or [STAT 261](#), and [STAT 281](#) or [STAT 293](#).

**Applied and Interdisciplinary Mathematics:** [MATH 021](#), [MATH 022](#), [MATH 121](#); [CS 21](#); [MATH 124](#), [MATH 230](#), and [MATH 237](#).

In addition to the Basic Curriculum above, candidates for the degree of Bachelor of Science in Mathematics must complete the following requirements A, B, C, and D.

### A. Major Courses

**Mathematics:** A minimum of 21 additional hours in Mathematics, Statistics, or Computer Science courses numbered 100 or above. At least 12 hours must be in courses numbered 200 or above and no more than 12 hours may be chosen from Computer Science.

**Statistics:** An additional six credit hours of Statistics, so that the total credits earned in Statistics is at least 24 hours. A minimum of two additional hours in Mathematics, Statistics, or Computer Science courses numbered 100 or above, so that a total of at least 45 credits in the basic and major courses is earned. A total of 18 credit hours in the combined basic curriculum and majors courses must be taken at the 200 level and no more than 12 hours can be taken in Computer Science.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**Applied and Interdisciplinary Mathematics:** A minimum of 18 additional hours in Mathematics, Statistics, or Computer Science courses numbered 100 or above. Of these 18 hours, 6 must be in Mathematics or Statistics, and 12 hours must be numbered 200 or above.

#### B. **Allied Field Courses**

Twenty-four hours selected from the following Allied Fields:

1. Physical Sciences
2. Biological Sciences
3. Medical Sciences
4. Engineering
5. Computer Science (26 or higher)
6. Agricultural Sciences
7. Business Administration
8. Psychology
9. Economics
10. Environmental Sciences/Studies
11. Natural Resources

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Each student in consultation with his or her advisor must plan a sequence of Allied Field courses consistent with his or her professional and personal goals. A student interested in pursuing intensive studies in an area not specifically listed is encouraged to plan a program with his or her advisor and submit it to the appropriate departmental committee for review and approval. The requirements are as follows:

**Mathematics:** Twenty-four hours selected from the above list of Allied Fields. Of these 24 hours, at least six must be in courses numbered 100 or above, and at least six must be taken in fields (1) to (5). Courses used to satisfy requirement A above may not be used to satisfy this requirement.

**Statistics:** Twenty-four hours selected from the above list of Allied Fields, including at least one laboratory experience in science or engineering. Of these 24 hours, at least six must be in courses numbered 100 or above and at least six must be taken in fields (1) to (5). Courses used to satisfy requirement A above may not be used to satisfy this requirement.

**Applied and Interdisciplinary Mathematics:** At least seven courses with a concentrated focus in an allied field. The major courses in requirement A and the Allied Field courses in requirement B must form a coherent program that has the written approval of the student's faculty advisor in the Mathematics and Statistics Department. When appropriate, and with the written approval of the advisor, at most three courses can overlap requirements A and B.

#### C. **Humanities and Social Science Courses**

(Courses used to satisfy requirement B above may not be used to satisfy this

requirement.)

ENGS 001 and 21 credits selected from categories I, II, and III listed below. These 21 credits must be distributed over at least two categories, and at least six credits must be taken in each of the two categories chosen. Statistics majors must include SPCH 011.

I. Language and Literature

- Chinese
- Classics
- English
- French
- General Literature
- German
- Greek
- Hebrew
- Italian
- Linguistics
- Russian
- Spanish
- World Literature

II. Fine Arts, Philosophy, and Religion

- Art
- Film
- Music
- Philosophy
- Religion
- Speech
- Theatre

III. Social Sciences

- ALANA U.S. Ethnic Studies
- Anthropology
- Area and International Studies
- Communication Sciences
- Economics
- Geography
- History
- Political Science
- Psychology
- Sociology
- Vermont Studies
- Women's Studies

D. **Total Hours**

A minimum of 120 semester hours is required, plus two hours in physical education activities. First-year students must include the one-hour Race and

Culture course or a course approved by the College of Arts and Sciences as meeting the "Race Relations and Ethnic Diversity in the United States" requirement.

E. **Grades**

No more than three grades of D, D+, or D- in the 200/300 level Mathematics and Statistics courses used to satisfy the "Core Curriculum" and "Major Courses" requirements will be acceptable.

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Mathematics and Statistics Department > Courses

## Courses offered by the Mathematics and Statistics Department

### Courses in Mathematics

#### MATH 001 - Elementary College Algebra

Review of fundamental operations and a more extensive study of fractions, exponents, radicals, linear and quadratic equations, ratio, proportion, variation, progressions, and the binomial theorem. Topics normally included in intermediate algebra in high school. Students who have satisfactorily completed two years of high school algebra, or the equivalent, receive no credit for this course. Offered only in Evening Division and Summer Session. Prerequisite: One year of high school algebra.

Credits: 3.

#### MATH 002 - Plane Trigonometry

Trigonometric functions, their graphs and other properties, solution of triangles, trigonometric equations and identities, and inverse trigonometric functions. May not be taken for credit concurrently with, or following receipt of, credit for any mathematics course numbered MATH 020 or above. Prerequisite: MATH 001 or MATH 009. Offered only in Evening Division and Summer Session.

Credits: 3.

#### MATH 009 - College Algebra

Sets, relations, and functions with particular attention to properties of algebraic, exponential, and logarithmic functions, their graphs and applications. May not be taken for credit concurrently with, or following receipt of, credit for any mathematics course numbered 19 or above. Prerequisites: Two years of secondary school algebra, one year of secondary school geometry.

Credits: 3.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**MATH 010 - Pre-Calculus Mathematics**

geometry.  
Credits: 3.

**MATH 011 - Technical Calculus I**

Introduction to calculus of functions of one variable, emphasizing techniques and applications of differentiation and integration. Prerequisite: MATH 010 or MATH 009 and MATH 002, or strong background in secondary school algebra and trigonometry; an associates degree in engineering. Dual credit not given for MATH 011 and MATH 021.  
Credits: 3.

**MATH 012 - Technical Calculus II**

coordinates, sequences, series and vectors. Prerequisite: MATH 011 or MATH 021; associates degree in engineering.  
Credits: 3.

**MATH 013 - Calculus via Modeling I**

Introduction to mathematical modeling and differential calculus with a graphical, problem-solving approach. Requires graphing calculator. Prerequisite: Three years high school math, or MATH 009. Credit not given for both MATH 013 and MATH 019.  
Credits: 3.

**MATH 014 - Calculus via Modeling II**

Further modeling and an introduction to integral and multivariate calculus with a graphical, problem-solving approach. Requires graphing calculator. Credit not given for both MATH 014 and MATH 020. Prerequisite: MATH 013.  
Credits: 3.

**MATH 015 - Elementary School Math**

Comprehension of operations with real numbers, measurements, and informal geometry provide background for algebra, number theory, statistics, probability, compass and ruler constructions, and problem solving. Prerequisite: 15 for 16. Open only to students in elementary education.  
Credits: 3.

**MATH 016 - Fund Concepts Elem School Math**

Comprehension of operations with real numbers, measurements, and informal geometry provide background for algebra, number theory, statistics, probability, compass and ruler constructions, and problem solving. Prerequisite: 15 for 16. Open only to students in elementary education.  
Credits: 3.

**MATH 017 - Applications of Finite Math**

Introduction to mathematics of finite systems with applications, such as probability, statistics, growth and symmetry, graph theory, fair division and apportionment problems, voting systems. Prerequisite: Two years of secondary school algebra or

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9 or 10.

Credits: 0-3.

**MATH 018 - Basic Mathematics**

Data, statistics, modeling, algebra, word problems, calculus. Students who do well in the algebra section may continue with MATH 19 or MATH 21. Prerequisites: 3 years high school math. No credit for EM students.

Credits: 3.

**MATH 019 - Fundamentals of Calculus I**

Introduction to limits and differential calculus with a wide variety of applications. Students interested in intensive use of mathematics should take 21. Credit not given for more than one of the courses 19, 21 unless followed by 22. Credit not given for both Math. 13 and 19. Prerequisite: 9, 10, or sufficiently strong background in secondary school algebra and geometry.

Credits: 3.

**MATH 020 - Fundamentals of Calculus II**

022 is preferable to MATH 019, MATH 020, MATH 022. Credit 019.\*

Credits: 3.

**MATH 021 - Calculus I**

Introduction to calculus of functions of one variable including: limits, continuity, techniques and applications of differentiation and integration. Credit not given for more than one course in the pair 19, 21. Prerequisite: 10; or 9 and 2; or strong background in secondary school algebra and trigonometry

Credits: 4.

**MATH 022 - Calculus II**

Techniques and applications of integration. Polar coordinates, Taylor polynomials, sequences and series, power series. Prerequisite: 21.

Credits: 4.

**MATH 052 - Fundamentals of Mathematics**

Fundamental mathematical concepts and techniques, theory. Credit not given for both 52 and 54. emphasizing proofs and algorithms, are investigated within the context of topics such as number theory and graph Corequisite: Math 21.

Credits: 3.

**MATH 054 - Fund of Math of Computation**

Introduction to mathematical theory and techniques underlying computer science. Co-requisite: MATH 019 or MATH 021.

Credits: 3.

**MATH 095 - Special Topics**

Introductory courses or seminars on topics beyond the scope of existing departmental offerings. See Schedule of Courses for specific titles. Prerequisite: Instructor permission.

Credits: 1-6.

**MATH 111 - Technical Calculus III**

Calculus of functions of several variables, partial derivatives, gradient, divergence, curl, multiple integrals. Prerequisite: MATH 012 or MATH 022; associates degree in engineering. Dual credit not given for MATH 111 and MATH 121.

Credits: 3.

**MATH 121 - Calculus III**

Vectors, vector-valued functions. Calculus of functions of several variables: partial derivatives, gradient, divergence, curl, multiple integrals, line integrals, Stokes' and Green's theorems. Prerequisite: MATH 022.

Credits: 4.

**MATH 124 - Linear Algebra**

Matrices, linear dependence, vector spaces, linear transformations, characteristic equations and applications. Prerequisite: MATH 022 or Instructor permission. .

Credits: 3.

**MATH 141 - Real Analysis in One Variable**

Principles of analysis in one variable. Heine-Borel and Bolzano-Weierstrass theorems; rigorous development of differential and integral calculus infinite sequences and series of functions. Prerequisite: 52.

Credits: 3.

**MATH 151 - Groups and Rings**

An introduction to the basic concepts of abstract algebra emphasizing examples, including modular arithmetic, symmetric groups, cyclic groups, polynomial rings, homomorphisms, and isomorphisms. Prerequisite: 52.

Credits: 3.

**MATH 161 - Development of Mathematics**

Historical development of mathematical sciences emphasizing interrelations among them. Individual assignments correspond to background and interests of students. Prerequisite: Nine hours of college mathematics.

Credits: 3.

**MATH 162 - Geometry EI&Mid School Teacher**

An informal, investigative approach to geometry. Extensive use of discovery experiences through inductive procedures as opposed to the traditional emphasis on deductive process found in high school geometry. Credit not given for Math. majors in EM. Prerequisite: MATH 015 or a teaching certificate.

Credits: 3.

**MATH 167 - Physical Chemistry Preparation**

Review of relevant mathematical and physical concepts as applied to physical chemistry. Credit cannot be obtained for both MATH 167 and MATH 121. Not available for credit for E&M students. Prerequisite: MATH 022; CHEM 032 or CHEM 036. Cross-listed with: CHEM 167.

Credits: 1.

**MATH 173 - Basic Combinatorial Theory**

Introduction to basic combinatorial principles emphasizing problem-solving techniques. Enumeration, Generating Functions, Fibonacci Numbers, Pigeonhole Principle, Inclusion-Exclusion, and Graph Theory. Prerequisite: 52 or 54.

Credits: 3.

**MATH 179 - Teaching Secondary School Math**

Contemporary secondary school mathematics curricula, their content from an advanced standpoint, unifying mathematical concepts and their implications at various levels, and introduction of selected mathematical topics. Intended only for students with an interest in teaching secondary school mathematics. Not acceptable as part of any mathematics requirement for a degree. Prerequisite: EDEC 178; acceptance to teacher education, or Instructor permission.

Credits: 3.

**MATH 191 - Special Topics**

An approved project under guidance of a staff member and culminating in a written report. Involvement with off-campus groups permitted. Prerequisite: Junior/ Senior standing; approval of Department Chair.

Credits: 1-3.

**MATH 192 - Special Topics**

An approved project under guidance of a staff member and culminating in a written report. Involvement with off-campus groups permitted. Prerequisite: Junior/ Senior standing; approval of Department Chair.

Credits: 1-3.

**MATH 193 - College Honors**

Credits: 1-3.

**MATH 194 - College Honors**

Credits: 1-3.

**MATH 195 - Special Topics**

Credits: 1-4.

**MATH 207 - Probability Theory**

(Same as Statistics 251.)

Credits: 3.

**MATH 221 - Deterministic Models in Operations Research**

The linear programming problem. Simplex algorithm, dual problem, sensitivity analysis, goal programming. Dynamic programming and network problems.

Prerequisites: 124; 121 desirable.

Credits: 3.

**MATH 222 - Stochastic Models in Operations Research**

Development and solution of some typical stochastic models. Markov chains,

queueing problems, inventory models, and dynamic programming under uncertainty. Prerequisite: MATH 207, STAT 151, or Instructor permission.

Credits: 3.

**MATH 224 - Analysis of Algorithms**

(Same as Computer Science 224.)

Credits: 3.

**MATH 230 - Ordinary Differential Equation**

Solutions of linear ordinary differential equations, the Laplace transformation, and series solutions of differential equations. Prerequisite: MATH 121. Corequisite: MATH 124 or Instructor permission. Credit not granted for more than one of the courses MATH 230 or MATH 271.

Credits: 3.

**MATH 236 - Calculus of Variations**

Necessary conditions of Euler, Legendre, Weierstrass, and Jacobi for minimizing integrals. Sufficiency proofs. Variation and eigenvalue problems. Hamilton-Jacobi equations. Prerequisite: 230. Alternate years, 1997-98.

Credits: 3.

**MATH 237 - Intro to Numerical Analysis**

Error analysis, root-finding, interpolation, least squares, quadrature, linear equations, numerical solution of ordinary differential equations. Prerequisite: MATH 121, MATH 124 or MATH 271; Knowledge of computer programming.

Credits: 3.

**MATH 238 - Numerical Diff Equations**

Numerical solution of differential equations: initial-value and boundary-value problems; finite difference and finite element methods. Prerequisite: 237, either 230 or 271 recommended.

Credits: 3.

**MATH 240 - Fourier Series&Integral Trans**

MATH 271.

Credits: 3.

**MATH 241 - Anyl in Several Real Vars I**

Properties of the real numbers, metric spaces, infinite sequences and series, continuity. Prerequisites: 52, 121, 124 or instructor's permission.

Credits: 3.

**MATH 242 - Anyl Several Real Variables II**

Differentiation in  $R_n$ , Riemann-Stieltjes integral, uniform convergence of functions, Inverse and Implicit Function Theorems. Prerequisite: 241.

Credits: 3.

**MATH 243 - Theory of Computation**

(Same as Computer Science 243.)

Credits: 3.

**MATH 251 - Abstract Algebra I**

Basic theory of groups, rings, fields, homomorphisms, and isomorphisms.

Prerequisite: MATH 052, MATH 124, or Instructor permission.

Credits: 3.

**MATH 252 - Abstract Algebra II**

of quintic equations. Prerequisite: MATH 251. Modules, vector spaces, linear transformations, rational and Jordan canonical forms. Finite fields, field extensions, and Galois theory leading to the insolvability

Credits: 3.

**MATH 255 - Elementary Number Theory**

Divisibility, prime numbers, Diophantine equations, congruence of numbers, and methods of solving congruences. Prerequisite: MATH 052 or MATH 054.

Credits: 3.

**MATH 257 - Topics in Group Theory**

Topics may include abstract group theory, representation theory, classical groups, Lie groups. Prerequisite: 251. Alternate years, 2000-01.

Credits: 3.

**MATH 260 - Foundations of Geometry**

Geometry as an axiomatic science; various non-Euclidean geometries; relationships existing between Euclidean plane geometry and other geometries; invariant properties. Prerequisite: MATH 052 or MATH 054.

Credits: 3.

**MATH 264 - Vector Analysis**

Gradient, curl and divergence, Green, Gauss, and Stokes Theorems, applications to physics, tensor analysis. Prerequisite: MATH 121, MATH 124, or MATH 271.

Credits: 3.

**MATH 266 - Chaos, Fractals & Dynamical Syst**

Discrete and continuous dynamical systems, Julia sets, the Mandelbrot set, period doubling, renormalization, Henon map, phase plane analysis and Lorenz equations. Corequisite: 271 or 230 or instructor's permission.

Credits: 3.

**MATH 268 - Mathematical Biology & Ecology**

Mathematical modeling in the life sciences. Topics include population modeling, dynamics of infectious diseases, reaction kinetics, wave phenomena in biology, and biological pattern formation. Prerequisites: 124, 230; or instructor's permission.

Credits: 3.

**MATH 271 - Appl Math for Engr & Scientists**

Matrix theory, linear ordinary differential equations. Emphasis on methods of

solution, including numerical methods. Co-requisite: 121. No credit for mathematics majors. Credit not granted for more than one of the courses Math. 230 and Math. 271.

Credits: 3.

**MATH 272 - Applied Analysis**

Partial Differential Equations of Mathematical Physics, Calculus of Variations, Functions of a Complex Variable, Cauchy's Theorem, integral formula. Conformal mapping. Prerequisite: 230 or 271.

Credits: 3.

**MATH 273 - Combinatorial Graph Theory**

Paths and trees, connectivity, Eulerian and Hamiltonian cycles, matchings, edge and vertex colorings, planar graphs, Euler's formula and the Four Color Theorem, networks. Prerequisite: MATH 052 or MATH 054, or Instructor permission.

Credits: 3.

**MATH 274 - Numerical Linear Algebra**

Direct and iterative methods for solving linear equations, least square factorization methods, eigenvalue computations, ill-conditioning and stability. Prerequisite: MATH 237.

Credits: 3.

**MATH 275 - Advanced Engineer Analysis I**

(Same as Mechanical Engineering 304, 305; Civil Engineering 304, 305.)  
Prerequisites: 271 or 230; 275 for 276.

Credits: 3.

**MATH 276 - Adv Engineering Analysis II**

(Same as Mechanical Engineering 304, 305; Civil Engineering 304, 305.)  
Prerequisites: 271 or 230; 275 for 276.

Credits: 3.

**MATH 278 - Intro Wavelets & Filter Banks**

Continuous and discrete-time signal processing. Continuous wavelet transform. Series expansion of continuous and discrete-time signals. Perfect reconstruction, from filter. Pre/co-requisites: 171, or instructor permission. Cross-listing: EE 274.

Credits: 3.

**MATH 283 - Junior-Senior Seminar**

Students required to give presentations on selected topics. Prerequisite: Instructor permission.

Credits: 1.

**MATH 293 - Undergraduate Honors Thesis**

Program of reading and research culminating in written thesis and oral presentation. Honors notation appears on transcript and Commencement Program. Contact department chairperson for procedures. (Not offered for graduate credit.)



Credits: 3-4.

**MATH 294 - Undergraduate Honors Thesis**

Program of reading and research culminating in written thesis and oral presentation. Honors notation appears on transcript and Commencement Program. Contact department chairperson for procedures. (Not offered for graduate credit.)

Credits: 3-4.

**MATH 295 - Special Topics**

For advanced students in the indicated fields. Lectures, reports, and directed readings on advanced topics. Prerequisite: Instructor permission. Credit as arranged. Offered as occasion warrants.

Credits: 1-9.

**MATH 330 - Adv Ordinary Diff Equations**

Linear and nonlinear systems, approximate solutions, existence, uniqueness, dependence on initial conditions, stability, asymptotic behavior, singularities, self-adjoint problems. Prerequisite: MATH 230.

Credits: 3.

**MATH 331 - Theory of Func of Complex Var**

meromorphic functions, conformal mappings, Riemann Differentiation, integration, Cauchy-Riemann equations, infinite series, properties of analytic continuation, Laurent series, calculus of residues, contour integration, surfaces. Prerequisite: MATH 242.

Credits: 4.

**MATH 332 - Approximation Theory**

Interpolation and approximation by interpolation, uniform approximation in normed linear spaces, spline functions, orthogonal polynomials. Least square, and Chebychev approximations, rational functions. Prerequisite: MATH 124, MATH 237.

Credits: 3.

**MATH 333 - Thry Functions Real Variables**

The theory of Lebesgue integration, Lebesgue measure, sequences of functions, absolute continuity, properties of LP-spaces. Prerequisite: MATH 242.

Credits: 4.

**MATH 335 - Advanced Real Analysis**

L2-spaces, LP-spaces; Hilbert, Banach spaces; linear functionals, linear operators; completely continuous operators (including symmetric); Fredholm alternative; Hilbert-Schmidt theory; unitary operators; Bochner's Theorem; Fourier-Plancherel, Watson transforms. Prerequisites: MATH 333.

Credits: 3.

**MATH 336 - Advanced Real Analysis**

L2-spaces, LP-spaces; Hilbert, Banach spaces; linear functionals, linear

operators; completely continuous operators (including symmetric); Fredholm alternative; Hilbert-Schmidt theory; unitary operators; Bochner's Theorem; Fourier-Plancherel, Watson transforms. Prerequisite: MATH 333 and MATH 335.

Credits: 3.

**MATH 339 - Partial Differential Equations**

Classification of equations, linear equations, first order equations, second order elliptic, parabolic, and hyperbolic equations, uniqueness and existence of solutions. Prerequisite: MATH 230; MATH 242.

Credits: 3.

**MATH 351 - Topics in Algebra**

credit with Instructor permission.

Credits: 3.

**MATH 353 - Point-Set Topology**

MATH 241. Topological spaces, closed and open sets, closure operators, separation axioms, continuity, connectedness, compactness, metrization, uniform spaces. Prerequisite:

Credits: 3.

**MATH 354 - Algebraic Topology**

Homotopy, Seifert-van Kampen Theorem; simplicial, singular, and Čech homology. Prerequisite: MATH 353.

Credits: 3.

**MATH 373 - Topics in Combinatorics**

Topics will vary each semester and may include combinatorial designs, coding theory, topological graph theory, cryptography. Prerequisite: MATH 251 or MATH 273; or Instructor permission.

Credits: 3.

**MATH 382 - Seminar**

Topical discussions with assigned reading. Required of M.S. degree candidates.

Credits: 1.

**MATH 391 - Master's Thesis Research**

Credits: 1-18.

**MATH 395 - Special Topics**

Subject will vary from year to year. May be repeated for credit.

Credits: 1-6.

**MATH 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## Courses in Statistics

**STAT 011 - Intro to Stats via Microcomp**

Various study designs considered. Graphical and analytic techniques for presenting results. Wide variety of applications surveyed. PC-based software used. Experience gained in sample survey work. Prerequisite: High school algebra.

Credits: 3.

**STAT 051 - Probability With Statistics**

Introduction to probabilistic and statistical reasoning, including probability distribution models and applications to current scientific/social issues. Roles of probability, study design, and exploratory/confirmatory data analysis. Prerequisite: Two years H.S. algebra. No credit for Sophomores, Juniors, or Seniors in the mathematical and engineering sciences.

Credits: 3.

**STAT 095 - Special Topics**

Lectures, reports, and directed readings at an introductory level. Prerequisite: As listed in course schedule.

Credits: 1-3.

**STAT 111 - Elements of Statistics**

Basic statistical concepts, methods, and applications, including correlation, regression, confidence intervals, and hypothesis tests. Prerequisite: Two years of high school algebra; Sophomore standing.

Credits: 3.

**STAT 140 - Natural Resource Biostatistics**

Cross-listed with: NR 140.

Credits: 4.

**STAT 141 - Basic Statistical Methods**

Foundational course for students taking further quantitative courses. Exploratory data analysis, probability distributions, estimation, hypothesis testing. Introductory regression, experimentation, contingency tables, and nonparametrics. Computer software used. Prerequisites: Math. 11, 13, 19 or 21, sophomore standing.

Credits: 3.

**STAT 143 - Statistics for Engineering**

Data analysis, probability models, parameter estimation, hypothesis testing. Multi-factor experimental design and regression analysis. Quality control, SPC, reliability. Engineering cases and project. Statistical analysis software. Prerequisites: Math. 12, 14, 20 or 22, sophomore standing.

Credits: 3.

**STAT 151 - Applied Probability**

continuous models. Pseudo-random number generation. Foundations of probability, conditioning, and independence. Business, computing, biological, engineering reliability, and quality control applications. Classical discrete and

Prerequisites: Math. 12, 14, 20 or 22.

Credits: 3.

**STAT 153 - Prob & Stat for Cmptr Sci**

Foundations of probability, conditioning, independence, expectation and variance. Discrete and continuous probability distributions. Computer simulation examples. Introductory descriptive and inferential statistics. Simple regression analysis.

Pre/co-requisite: MATH 020 or MATH 022.

Credits: 3.

**STAT 191 - Special Projects**

Student-designed special project under supervision of a staff member culminating in a report. Prerequisite: Junior standing; permission of Program Director.

Credits: 1-4.

**STAT 195 - Special Topics**

Lectures, reports, and directed readings. Prerequisite: As listed in course schedule.

Credits: 1-3.

**STAT 200 - Med Biostatistics&Epidemiology**

(Same as Biostatistics 200.) Introductory design and analysis of medical studies. Epidemiological concepts, case-control and cohort studies. Clinical trials. Students evaluate statistical aspects of published health science studies. Prerequisite: 141 or 143; or 211.

Credits: 3.

**STAT 201 - Stat Analysis Via Computers**

(Same as Biostatistics 201.) Intensive coverage of computer-based data processing and analysis using statistical packages, subroutine libraries, and user-supplied programs. Students analyze real data and prepare a comprehensive report. Prerequisites: 111 with instructor's permission, or 141, or corequisite 211.

Credits: 3.

**STAT 211 - Statistical Methods I**

(Same as Biostatistics 211.) Fundamental concepts for data analysis and experimental design. Descriptive and inferential statistics, including classical and nonparametric methods, regression, correlation, and analysis of variance. Statistical software. Prerequisite: Junior standing.

Credits: 3.

**STAT 221 - Statistical Methods II**

(Same as Biostatistics 221.) Multiple regression and correlation. Basic experimental design. Analysis of variance (fixed, random, and mixed models). Analysis of covariance. Computer software usage. Prerequisites: 141 or 143; or 211.

Credits: 3.

**STAT 223 - Applied Multivariate Analysis**

(Same as Biostatistics 223.) Multivariate normal distribution. Inference for mean vectors and covariance matrices. Multivariate analysis of variance (MANOVA), discrimination and classification, principal components, factor analysis.

Prerequisites: Any 200-level Statistics course, 221 or 225 recommended, matrix algebra recommended.

Credits: 3.

#### **STAT 224 - Stats for Quality&Productivity**

(Same as Biostatistics 224.) Statistical process control; Shewhart, cusum and other control charts; process capability studies. Total Quality Management.

Acceptance, continuous, sequential sampling. Process design and improvement. Case studies. Prerequisites: 141 or 143; or 211.

Credits: 3.

#### **STAT 225 - Applied Regression Analysis**

(Same as Biostatistics 225.) Simple linear and multiple regression models; least squares estimates, correlation, prediction, forecasting. Problems of multicollinearity and influential data (outliers).

Credits: 3.

#### **STAT 227 - Adv Statistical Methods II**

(Same as Psychology 341.) Prerequisite: 211 with computer experience or Psychology 340.

Credits: 3.

#### **STAT 229 - Survival Analysis**

(Same as Biostatistics 229.) Probabilistic models and inference for time-to-event data. Censored data, life tables, Kaplan-Meier estimation, logrank tests, proportional hazards regression. Specialized applications (e.g. clinical trials, reliability). Prerequisites: Any 200-level Statistics course, one year of calculus.

Credits: 3.

#### **STAT 231 - Experimental Design**

(Same as Biostatistics 231.) Randomization, complete and incomplete blocks, cross-overs, Latin squares, covariance analysis, factorial experiments, confounding, fractional factorials, nesting, split plots, repeated measures, mixed models, response surface optimization. Prerequisites: 211; 221 recommended.

Credits: 3.

#### **STAT 233 - Survey Sampling**

(Same as Biostatistics 233.) Design and data analysis for sample surveys. Simple random, stratified, systematic, cluster, multistage sampling. Practical issues in planning and conducting surveys. Prerequisites: 211; or 141 or 143 with instructor's permission.

Credits: 3.

#### **STAT 235 - Categorical Data Analysis**

(Same as Biostatistics 235.) Measures of association and inference for categorical

and ordinal data in multiway contingency tables. Log linear and logistic regression models. Prerequisite: 211.

Credits: 3.

**STAT 237 - Nonparametric Statistical Mthd**

(Same as Biostatistics 237.) Nonparametric and distribution free methods; categorical, ordinal, and quantitative data; confidence intervals; rank and chi-square hypothesis tests; computer-intensive procedures (bootstrap, exact tests).

Prerequisites: 211; or 141 or 143 with instructor's permission.

Credits: 3.

**STAT 241 - Statistical Inference**

(Same as Biostatistics 241.) Introduction to statistical theory: related probability fundamentals, derivation of statistical principles, and methodology for parameter estimation and hypothesis testing. Prerequisites: 151 or

Credits: 3.

**STAT 251 - Probability Theory**

(Same as Math. 207.) Distributions of random variables and functions of random variables. Expectations, stochastic independence, sampling and limiting distributions (central limit theorems). Concepts of random number generation.

Prerequisite: Math 121; Stat 151 or 153 recommended.

Credits: 3.

**STAT 252 - Appl Discr Stochas Proc Models**

Markov chain models for biological, social, and behavioral systems models.

Random walks, transition and steady-state probabilities, passage and recurrence times. Prerequisite: STAT 151, STAT 153, or STAT 251.

Credits: 1.

**STAT 253 - Appl Time Series & Forecasting**

(Same as Biostatistics 253.) Autoregressive moving average (Box-Jenkins) models, autocorrelation, partial correlation, differencing for nonstationarity, computer modeling. Forecasting, seasonal or cyclic variation, transfer function and intervention analysis, spectral analysis. Prerequisite: 211 or 225; or 141 or 143 with instructor's permission.

Credits: 3.

**STAT 254 - Appl Cont Stoch Process Models**

distributions. Monte Carlo simulation. Pre/co-requisite: Queueing models for operations research and computer science systems analysis. Birth-and-death processes with applications. Exponential, Erlang and Poisson STAT 151, STAT 153, or STAT 251.

Credits: 1.

**STAT 256 - Neural Computation**

(See Computer Science 256.)

Credits: 3.

**STAT 261 - Statistical Theory I**

(Same as Biostatistics 261, 262.) Point and interval estimation, hypothesis testing, and decision theory. Application of general statistical principles to areas such as nonparametric tests, sequential analysis, and linear models. Prerequisites: STAT 251 or either STAT 151 or STAT 153 with instructor permission.

Credits: 3.

**STAT 262 - Statistical Theory II**

(Same as Biostatistics 261, 262.) Point and interval estimation, hypothesis testing, and decision theory. Application of general statistical principles to areas such as nonparametric tests, sequential analysis, and linear models. Prerequisites: For 261: 151 with instructor permission or 251; for 262: 241 with instructor permission or 261.

Credits: 3.

**STAT 265 - Integrated Product Development**

(Same as Business Administration 293.)

Credits: 3.

**STAT 270 - Stochastic Thry in Elec Eng**

(See Electrical Engineering 270.)

Credits: 3.

**STAT 271 - Least Squares Est & Filtering**

(See Electrical Engineering 271.)

Credits: 3.

**STAT 281 - Statistics Practicum**

Intensive experience in carrying out a complete statistical analysis for a research project in substantive area with close consultation with a project investigator.

Prerequisites: Any one of 200, 201, 221 through 237; or 253; some statistical software experience. No credit for graduate students in Statistics or Biostatistics.

Credits: 1-4.

**STAT 293 - Undergrad Honors Thesis**

Contact Statistics Program Director for procedures. A program of reading, research, design, and analysis culminating in a written thesis and oral defense. Honors notation appears on transcript and Commencement Program.

Credits: 1-8.

**STAT 294 - Undergrad Honors Thesis**

A program of reading, research, design, and analysis culminating in a written thesis and oral defense. Honors notation appears on transcript and Commencement Program. Contact Statistics Program Director for procedures.

Credits: 1-8.

**STAT 295 - Special Topics**

For advanced students. Lectures, reports, and directed readings on advanced topics. Prerequisite: As listed in course schedule.

Credits: 1-4.

**STAT 308 - Applied Biostatistics**

Intensive introduction to the rationale for and application of biostatistical methods in planning experiments and interpreting data in the biological, health and life sciences. Cross-listings: Molecular Physiology and Biophysics 308, Biostatistics 308.

Credits: 5.

**STAT 313 - Stat Analysis for Management**

See BSAD 313.

Credits: 3.

**STAT 321 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Corequisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.

**STAT 323 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.

**STAT 324 - Seminar in Advanced Statistics**

and STAT 229, respectively Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.

**STAT 325 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT 225, and STAT 229, respectively. Co-requisites: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.

**STAT 329 - Seminar in Advanced Statistics**

Seminar presentations and discussions of statistical literature pertaining to the theoretical aspects of methods studied in STAT 221, STAT 223, STAT 224, STAT



225, and STAT 229, respectively. Co-requisite: STAT 221 for STAT 321; STAT 223 for STAT 323; STAT 224 for STAT 324; STAT 225 or STAT 221 for STAT 325, STAT 229 for STAT 329. STAT 241 or STAT 261 recommended.

Credits: 1.

**STAT 369 - Applied Geostatistics**

225; CS 16/CE11 or permission. Cross-listings: CE 369. See description for CE 369. Pre/co-requisites: Stat 223 or

Credits: 3.

**STAT 380 - Sem:Statistics & Biostatistics**

and guest speakers. Prerequisite: Instructor Permission. Presentation and discussion of current topics, methodological research and applications in Statistics and Biostatistics by graduate students, faculty

Credits: .5-1.

**STAT 381 - Statistical Research**

Methodologic or data analytic research culminating in oral and written reports to the faculty. Prerequisite: Instructor Permission. Cross-listed with: BIOS 381.

Credits: 1-3.

**STAT 385 - Consulting Practicum**

Supervised field work in statistical consulting. Experiences may include advising UVM faculty and students or clients in applied settings such as industry and government agencies. Prerequisites: Second year Graduate standing in Statistics or Biostatistics and permission of Statistics Program Director.

Credits: 1-3.

**STAT 391 - Master's Thesis Research**

Credits: 1-6.

**STAT 395 - Advanced Special Topics**

with: BIOS 395.

Credits: 1-3.

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## Faculty for Mathematics and Statistics Department

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• Honors College

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• The Rubenstein  
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Vincent E. Koehler

Senior Lecturer of Mathematics and Statistics

Appointed in 2003

Mathematics and Statistics Department

MS 1969 University of Notre Dame

MS 1984 Johns Hopkins University

Search Courses for Vincent Koehler

---

Larry Lyle Kost

Senior Lecturer of Mathematics and Statistics

Appointed in 1973

Mathematics and Statistics Department

BS 1965 University of St Thomas

MS 1968 University of Arizona

Search Courses for Larry Kost

---

John Charles Lawlor

Senior Lecturer of Mathematics and Statistics

Appointed in 1974

Mathematics and Statistics Department

AB 1969 Bowdoin College

MS 1974 University of New Hampshire

Search Courses for John Lawlor

---

Alan Chi Ling

Assistant Professor of Mathematics and Statistics

Associate Professor of Computer Science

Appointed in 1999

Computer Science Department

Mathematics and Statistics Department

BA 1994 University of Waterloo

MA 1995 University of Waterloo

PHD 1997 University of Waterloo

Search Courses for Alan Ling

---

Elizabeth Sloan Low

Lecturer of Mathematics and Statistics Emeritus

Appointed in 1984

Mathematics and Statistics Department

AB 1963 The College of Wooster

PHD 1968 University of Chicago

MS 1983 University of Vermont

Search Courses for Elizabeth Low

---

Ruth Mary Mickey

Professor of Mathematics and Statistics

Appointed in 1984

Mathematics and Statistics Department

BS 1976 University of California Davis

MSPH 1978 University of California Los Angeles

PHD 1983 University of California Los Angeles

Search Courses for Ruth Mickey

---

David Charles Morency



Lecturer of Mathematics and Statistics Emeritus

Appointed in 2001

Mathematics and Statistics Department

BS 1961 United States Naval Academy

MA 1971 University of Cincinnati

Search Courses for David Morency

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Kurt Edmund Oughstun

Professor of Computer Science

Professor of Engineering

Professor of Mathematics and Statistics

Appointed in 1987

Computer Science Department

Mathematics and Statistics Department

School of Engineering

BA 1972 Central Connecticut State University

MS 1974 University of Rochester

PHD 1978 University of Rochester

Search Courses for Kurt Oughstun

---

George Francis Pinder

Professor of Computer Science

Professor of Engineering

Professor of Mathematics and Statistics

Appointed in 1989

Computer Science Department

Mathematics and Statistics Department

School of Engineering

BSC 1965 University of Western Ontario

PHD 1968 University of Illinois Urbana-Champaign

Search Courses for George Pinder

---

Helen P. Read

Senior Lecturer of Mathematics and Statistics

Appointed in 1988

Mathematics and Statistics Department

BA 1984 University of Vermont

MS 1988 University of Vermont

Search Courses for Helen Read

---

Thomas E. Rogers

Senior Lecturer of Mathematics and Statistics

Appointed in 2002

Mathematics and Statistics Department  
BS 1988 United States Naval Academy  
MS 1995 United States Naval Academy  
Search Courses for Thomas Rogers

---

Joan Marie Rosebush  
Director of Student Success in the College of Engineering and Mathematical Sciences  
Senior Lecturer of Mathematics and Statistics  
Appointed in 1990  
Mathematics and Statistics Department  
BA 1978 SUNY Cortland  
MED 1981 Saint Michael's College  
CERT 1997 Saint Michael's College  
Search Courses for Joan Rosebush

---

Jonathan Winslow Sands  
Professor of Mathematics and Statistics  
Appointed in 1986  
Mathematics and Statistics Department  
BA 1977 Harvard University  
MA 1979 University of California San Diego  
PHD 1982 University of California San Diego  
Search Courses for Jonathan Sands

---

Richard M. Single  
Associate Professor of Mathematics and Statistics  
Appointed in 2001  
Mathematics and Statistics Department  
BS 1990 SUNY Albany  
MS 1992 SUNY Stony Brook  
PHD 1995 SUNY Stony Brook  
Search Courses for Richard Single

---

Robert Raymond Snapp  
Associate Professor of Computer Science  
Associate Professor of Mathematics and Statistics  
Appointed in 1990  
Computer Science Department  
Mathematics and Statistics Department  
AB 1978 University of California San Diego  
PHD 1987 University of Texas Austin  
Search Courses for Robert Snapp

---

Mun Shig Son  
Professor of Mathematics and Statistics  
Appointed in [1984](#)  
[Mathematics and Statistics Department](#)  
BA 1975 [Sung Kyun Kwan University](#)  
MS 1982 [Oklahoma State University](#)  
PHD 1984 [Oklahoma State University](#)  
MS 1984 [Oklahoma State University](#)  
[Search Courses for Mun Son](#)

---

Branimir Francis Von Turkovich  
Professor of Mathematics and Statistics Emeritus  
Professor of Mechanical Engineering Emeritus  
Appointed in [1971](#)  
[Mathematics and Statistics Department](#)  
[School of Engineering](#)  
BS 1947 [University of Naples](#)  
MS 1951 [University of Madrid](#)  
PHD 1962 [University of Illinois Urbana-Champaign](#)  
[Search Courses for Branimir Von Turkovich](#)

---

Sheila O'Leary Weaver  
Senior Lecturer of Mathematics and Statistics  
Appointed in [1985](#)  
[Mathematics and Statistics Department](#)  
BS 1982 [University of Illinois Urbana-Champaign](#)  
MS 1984 [University of Illinois Urbana-Champaign](#)  
[Search Courses for Sheila Weaver](#)

---

James Michael Wilson  
Professor of Mathematics and Statistics  
Appointed in [1986](#)  
[Mathematics and Statistics Department](#)  
BS 1977 [California Institute of Technology](#)  
MA 1979 [University of California Los Angeles](#)  
PHD 1981 [University of California Los Angeles](#)  
[Search Courses for James Wilson](#)

---

Robert Kingman Wright  
Professor of Mathematics Emeritus  
Appointed in [1966](#)  
[Mathematics and Statistics Department](#)  
AB 1963 [Middlebury College](#)

MA 1964 [Columbia University](#)  
PHD 1966 [Columbia University](#)  
[Search Courses for Robert Wright](#)

---

Jianke Yang  
Professor of Mathematics and Statistics  
Appointed in [1994](#)  
[Mathematics and Statistics Department](#)  
BS 1989 [Tsinghua University](#)  
PHD 1994 [Massachusetts Institute of Technology](#)  
[Search Courses for Jianke Yang](#)

---

Jun Yu  
Associate Chairperson of Mathematics and Statistics  
Associate Director of Mathematics and Statistics  
Professor of Computer Science  
Professor of Mathematics and Statistics  
Appointed in [1990](#)  
[Computer Science Department](#)  
[Mathematics and Statistics Department](#)  
BS 1982 [Nanjing Institute of Meteorology](#)  
PHD 1988 [University of Washington Seattle](#)  
[Search Courses for Jun Yu](#)

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## Mechanical Engineering Department

### Contact Information

*University of Vermont  
Mechanical Engineering Department  
201 Votey Building  
33 Colchester Ave.  
Burlington, VT 05405*

Phone: (802) 656-3320

Fax: (802) 656-1929

Email: [mecheng@emba.uvm.edu](mailto:mecheng@emba.uvm.edu)

[Web Site](#)

### Overview

Mechanical engineering spans the broadest spectrum of engineering activities from concept and design, through manufacturing and maintenance of all kinds of products and systems. Nearly all objects created by humans have some mechanical engineering input, from a simple spoon to a streamlined skateboard to an elegant spacecraft.

### Mission Statement

The mission of the Department of Mechanical Engineering at the University of Vermont is to provide a first-rate education to our students and to conduct research and service efforts that exploit the rapidly changing technical diversity of mechanical engineering in order to promote the state of the art in our programs.

### In This Department

- [Academic Offerings](#)
- [Mechanical Engineering Requirements](#)
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- [Faculty](#)

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

## Program Educational Objectives

- To train engineers with a Bachelor's degree with knowledge and experience in applying the classical and modern engineering methods in industrial, governmental or consulting careers.
- To provide students with the fundamental knowledge, skills and values which promote and facilitate lifetime learning throughout their professional careers.
- To foster a tradition of graduate research activity in the department with the expectation that there will be ancillary benefits to the undergraduate program
- To encourage outstanding students to pursue graduate study
- To allow students to pursue several tracks of specialization within Mechanical Engineering, depending on their career goals and interests.
- 

## Policies and General Information

For more information, please visit the department [Web site](#) 

## Faculty and Administration

## Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).

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## Mechanical Engineering Department: Academic Offerings

- [Mechanical Engineering: Biomedical \(B.S.\)](#)
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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Mechanical Engineering Department > Academic Offerings > Mechanical Engineering: Biomedical (B.S.)

## Mechanical Engineering: Biomedical (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mechanical Engineering Requirements](#)
- [Engineering Curricula](#)

### Specific Requirements

### Curriculum

tr>

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">MATH 021 - Calculus I</a>	4	
HSS Electives <sup>1</sup>	3	3
Physical Education Elective	1	1
<a href="#">ME 001 - First-Year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	15
SOPHOMORE		



Education	Course	Term	
		Fall	Spring
• Graduate College	<a href="#">ME 040 - Thermodynamics</a>	3	
• Honors College	<a href="#">CE 001 - Statics</a>	3	
	<a href="#">MATH 121 - Calculus III</a>	4	
• School of Business Administration	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4	
	<a href="#">PHYS 022 - Introductory Lab II</a>	1	
• The Rubenstein School of Environment and Natural Resources	HSS Electives <sup>1</sup>	3	
	<a href="#">ME 012 - Dynamics</a>		3
	<a href="#">ME 014 - Mechanics of Solids</a>		3
	<a href="#">ME 042 - Engineering Thermodynamics</a>		3
	<a href="#">ME 082 - Mech Engineering Lab I</a>		3
Policies and General Information	<a href="#">MATH 124 - Linear Algebra</a>		3
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3
Faculty and Administration	Total	18	18
<b>JUNIOR</b>			
Catalogue Archives	Course	Term	
		Fall	Spring
	<a href="#">ME 101 - Engineering Materials I</a>	3	
	<a href="#">ME 123 - Mechanical Engineering Lab II</a>	2	
	<a href="#">ME 143 - Fluid Mechanics</a>	3	
	<a href="#">EE 100 - Electrical Engr Concepts</a>	4	
	<a href="#">MPBP 019 - UG Human Anatomy &amp; Physiology</a>	4	
	<a href="#">ME 124 - Mechanical Engineering Lab III</a>		2
	<a href="#">ME 144 - Heat Transfer</a>		3
	[[course:me 171 ME 171 - Design of Elements]]		3
	<a href="#">EE 101 - Digital Control w/Embedded Sys</a>		4
	<a href="#">MPBP 020 - UG Human Anatomy &amp; Physiology</a>		4
	Total	16	16
<b>SENIOR</b>			
	Course	Term	
		Fall	Spring
	<a href="#">ME 111 - System Dynamics</a>	3	
	<a href="#">ME 161 - Manufacturing Engineering I</a>	3	
	<a href="#">ME 183 - Mechanical Engineering Lab IV</a>	3	
	<a href="#">ME 185 - Senior Project</a>	1	
	<a href="#">STAT 143 - Statistics for Engineering</a>	3	
	<a href="#">ME 207 - Biomechanics I</a>	3	
	<a href="#">ME 186 - Senior Project</a>		2
	<a href="#">ME 20X<sup>3</sup> - Biomechanics</a>		3

ME Design Elective <sup>2</sup>		3
HSS Electives <sup>1</sup>		6
Total	16	14
TOTAL CREDITS: 130		

### Notes:

1. HSS Electives (15 credits): Students must select one HSS course from the list of approved race and culture courses.
2. ME Design Electives: [ME 162](#), [ME 172](#), [ME 265](#).
3. [ME 208](#) or [ME 209](#).

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).
- Departments and Programs: [Mechanical Engineering Department](#).

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Mechanical Engineering Department > Academic Offerings > Mechanical Engineering: General (B.S.)

## Mechanical Engineering: General (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mechanical Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">MATH 021 - Calculus I</a>	4	
HSS Electives <sup>1</sup>	3	3
Physical Education Elective	1	1
<a href="#">ME 001 - First-Year Design Experience</a>		2
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	15
SOPHOMORE		
Course	Term	
	Fall	Spring
<a href="#">ME 040 - Thermodynamics</a>	3	

Education	<a href="#">CE 001 - Statics</a>	3		
• Graduate College	<a href="#">MATH 121 - Calculus III</a>	4		
	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4		
• Honors College	<a href="#">PHYS 022 - Introductory Lab II</a>	1		
• School of Business Administration	<a href="#">ME 012 - Dynamics</a>		3	
	<a href="#">ME 014 - Mechanics of Solids</a>		3	
	<a href="#">ME 042 - Engineering Thermodynamics</a>		3	
• The Rubenstein School of Environment and Natural Resources	<a href="#">ME 082 - Mech Engineering Lab I</a>		3	
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3	
	HSS Electives <sup>1</sup>		3	
	Total	15	18	
Policies and General Information	<b>JUNIOR</b>			
Faculty and Administration	<b>Course</b>	<b>Term</b>		
		<b>Fall</b>	<b>Spring</b>	
Catalogue Archives	<a href="#">ME 101 - Engineering Materials I</a>	3		
	[[course:me 111 ME 111 - System Dynamics]]	3		
	<a href="#">ME 123 - Mechanical Engineering Lab II</a>	2		
	<a href="#">ME 143 - Fluid Mechanics</a>	3		
	<a href="#">EE 100 - Electrical Engr Concepts</a>	4		
	<a href="#">MATH 124 - Linear Algebra</a>	3		
	<a href="#">ME 124 - Mechanical Engineering Lab III</a>		2	
	<a href="#">ME 144 - Heat Transfer</a>		3	
	[[course:me 171 ME 171 - Design of Elements]]		3	
	<a href="#">EE 101 - Digital Control w/Embedded Sys</a>		4	
	<a href="#">STAT 143 - Statistics for Engineering</a>		3	
	Total	18	15	
	<b>SENIOR</b>			
		<b>Course</b>	<b>Term</b>	
			<b>Fall</b>	<b>Spring</b>
	<a href="#">ME 161 - Manufacturing Engineering I</a>	3		
	<a href="#">ME 183 - Mechanical Engineering Lab IV</a>	3		
	<a href="#">ME 185 - Senior Project</a>	1		
	ME Electives <sup>2</sup>	3	3	
	Technical Electives <sup>3</sup>	3	3	
	HSS Electives <sup>1</sup>	3	3	
	<a href="#">ME 186 - Senior Project</a>		2	
	ME Design Elective <sup>4</sup>		3	
	Total	16	14	
TOTAL CREDITS: 128				

### Notes:

1. HSS Electives (15 credits): Students must select one HSS course from the list of approved race and culture courses.
2. ME Electives: A 200-level course or higher.
3. Technical Electives: Any 100-level or higher courses in EM and BSAD (except STAT 111 and ME 114); CS 14, CS 16, CS 21, CS 26; NR with approval of your advisor.
4. ME Design Electives: ME 162, ME 172, ME 265.

### Affiliations

- Colleges and Schools: College of Engineering and Mathematics.
- Departments and Programs: Mechanical Engineering Department.

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Colleges and Schools > College of Engineering and Mathematics > Departments and Programs > Mechanical Engineering Department > Academic Offerings > Mechanical Engineering: Premedical (B.S.)

## Mechanical Engineering: Premedical (Bachelor of Science)

### General Requirements

- [Requirements for All Undergraduate Degree Students](#)
- [Mechanical Engineering Requirements](#)
- [Engineering Curricula](#)

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 031 - Introductory Chemistry</a>	4	
<a href="#">ENGS 001 - Written Expression</a>	3	
<a href="#">ENGR 002 - Graphical Communication</a>	2	
<a href="#">MATH 021 - Calculus I</a>	4	
Physical Education Elective	1	
HSS Electives <sup>1</sup>	3	3
<a href="#">ME 001 - First-Year Design Experience</a>		2
<a href="#">CHEM 032 - Introductory Chemistry</a>		4
<a href="#">MATH 022 - Calculus II</a>		4
<a href="#">PHYS 031 - Introductory Physics</a>		4
<a href="#">PHYS 021 - Introductory Lab I</a>		1
Total	17	18
SOPHOMORE		
Course	Term	
	Fall	Spring

Education	<a href="#">ME 040 - Thermodynamics</a>	3		
• Graduate College	<a href="#">CE 001 - Statics</a>	3		
	<a href="#">MATH 121 - Calculus III</a>	4		
• Honors College	<a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>	4		
	<a href="#">PHYS 022 - Introductory Lab II</a>	1		
• School of Business Administration	HSS Electives <sup>1</sup>	3		
	<a href="#">ME 012 - Dynamics</a>		3	
• The Rubenstein School of Environment and Natural Resources	<a href="#">ME 014 - Mechanics of Solids</a>		3	
	<a href="#">ME 042 - Engineering Thermodynamics</a>		3	
	<a href="#">ME 082 - Mech Engineering Lab I</a>		3	
	<a href="#">MATH 124 - Linear Algebra</a>		3	
	<a href="#">MATH 271 - Appl Math for Engr&amp;Scientists</a>		3	
Policies and General Information	Total	18	18	
<b>JUNIOR</b>				
Faculty and Administration	<b>Course</b>	<b>Term</b>		
		<b>Fall</b>	<b>Spring</b>	
Catalogue Archives	<a href="#">ME 101 - Engineering Materials I</a>	3		
	<a href="#">ME 123 - Mechanical Engineering Lab II</a>	2		
	<a href="#">ME 143 - Fluid Mechanics</a>	3		
	<a href="#">BIOL 001 - Principles of Biology</a>	4		
	<a href="#">CHEM 141 - Organic Chemistry</a>	4		
	<a href="#">ME 124 - Mechanical Engineering Lab III</a>		2	
	<a href="#">ME 144 - Heat Transfer</a>		3	
	[[course:me 171 ME 171 - Design of Elements]]		3	
	<a href="#">BIOL 002 - Principles of Biology</a>		4	
	<a href="#">CHEM 142 - Organic Chemistry</a>		4	
	Physical Education Elective		1	
	Total	16	17	
	<b>SENIOR</b>			
		<b>Course</b>	<b>Term</b>	
<b>Fall</b>			<b>Spring</b>	
	<a href="#">ME 111 - System Dynamics</a>	3		
	<a href="#">ME 161 - Manufacturing Engineering I</a>	3		
	<a href="#">ME 183 - Mechanical Engineering Lab IV</a>	3		
	<a href="#">ME 185 - Senior Project</a>	1		
	<a href="#">EE 100 - Electrical Engr Concepts</a>	4		
	<a href="#">STAT 143 - Statistics for Engineering</a>	3		
	<a href="#">ME 186 - Senior Project</a>		2	
	<a href="#">EE 101 - Digital Control w/Embedded Sys</a>		4	
	ME Design Elective <sup>2</sup>		3	

HSS Electives <sup>1</sup>		6
Total	17	15
TOTAL CREDITS: 136		

### Notes:

1. HSS Electives (15 credits): Students must select one HSS course from the list of approved race and culture courses.
2. ME Design Electives: [ME 162](#), [ME 172](#), [ME 265](#).

### Affiliations

- Colleges and Schools: [College of Engineering and Mathematics](#).
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## Mechanical Engineering Requirements

The curriculum in Mechanical Engineering leading to a degree of Bachelor of Science in Mechanical Engineering offers instruction in design, solid and fluid mechanics, materials, manufacturing processes and systems, as well as in engineering, life and physical sciences, humanities, and social sciences.

There are three options leading to the degree of Bachelor of Science in Mechanical Engineering: (1) General Mechanical Engineering (128 semester hours); (2) Biomedical Engineering (130 semester hours); (3) Premedical Engineering (136 semester hours). In addition, all options require two credits of physical education activities.

Engineering design is developed and integrated in each student's program and culminates in a required major design experience which draws upon prior course work and which focuses on the issues and expectations of professional practice.

No more than three grades of D, D+, or D- will be acceptable in all required courses in engineering, basic science, and computer science including all technical electives as stated in the Catalogue for the junior and senior years.

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## Courses in Mechanical Engineering

### ME 001 - First-Year Design Experience

Introduction to the engineering profession and design. Hands-on experiences that emphasize interdisciplinary teamwork, technical communications, and project design methodologies. Cross-listed with: EE 001.

Credits: 2.

### ME 012 - Dynamics

Kinematics and kinetics of particles and rigid bodies in two and three dimensions. Computer-aided analysis. Prerequisite: CE 001, MATH 121.

Credits: 3.

### ME 014 - Mechanics of Solids

Stress, strain, temperature relationships, torsion, bending stresses and deflections. Columns, joints, thin-walled cylinders. Combined stresses and Mohr's circle. Prerequisite: CE 001, MATH 121, ME 012, or concurrent enrollment. Cross-listed with: CE 100.

Credits: 3.

### ME 040 - Thermodynamics

Principles of engineering thermodynamics; applications of these principles to thermodynamic cycles. Credit not allowed for both 40 and 41. Prerequisite: Math 22, Physics 31 with 21.

Credits: 3.

### ME 042 - Engineering Thermodynamics

Properties and processes of fluids; perfect gases, and approximate relationships for real gases; applications of thermodynamics, principles of combustion, mixtures, power cycles, gas compression, and refrigeration. Prerequisite: 40.

Credits: 3.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**ME 044 - Heat Transfer**

Introductory treatment of heat transfer by conduction, convection, and radiation.  
Co-requisite: ME 040.  
Credits: 1.

**ME 082 - Mech Engineering Lab I**

analysis. Pre/co-requisite: CE 001. Computer methods in mechanical engineering. Introduction to scientific programming; solids modeling and stress  
Credits: 3.

**ME 095 - Special Topics**

One to three hours with instructor's approval.  
Credits: 0-3.

---

Policies and General Information

**ME 101 - Engineering Materials I**

Atomic structure, crystalline structure, mechanical properties of metals; testing of materials, multicomponent systems, phase equilibria, processing metals, polymers, composite materials, ceramics and glass corrosion. Prerequisite: 14.  
Credits: 3.

---

Faculty and Administration

**ME 111 - System Dynamics**

Modeling of systems with mechanical, electrical, fluid, and thermal elements. Linear systems analysis. Response of vibratory and feedback systems. Computer simulation. Prerequisite: 12.  
Credits: 3.

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Catalogue Archives

**ME 114 - Intro Engineering Mechanics**

Introduction to statics, dynamics, fluid mechanics, strength of materials, thermodynamics. Prerequisite: Junior standing in engineering or physical sciences.  
Credits: 3.

**ME 123 - Mechanical Engineering Lab II**

Engineering measurements, data analysis and theory of experimentation. Experiments with fluids and material testing machines and instrumentation for dynamic measurements. Corequisite: 143.  
Credits: 2.

**ME 124 - Mechanical Engineering Lab III**

Engineering measurements, data analysis and theory of experimentation. Experiments with fluids and material testing machines and instrumentation for dynamic measurements. Corequisite: 143.  
Credits: 2.

**ME 143 - Fluid Mechanics**

Fluid pressure distributions; integral control volume systems; differential relations for a fluid particle; dimensional similarity; viscous flow in ducts; boundary layer flows; inviscid incompressible flows. Prerequisites: 12, 42.

Credits: 3.

**ME 144 - Heat Transfer**

One- and two-dimensional steady and unsteady thermal conduction; natural and forced internal and external convection; thermal radiation; heat exchangers; boiling and condensation heat transfer. Prerequisite: ME 143.

Credits: 3.

**ME 150 - The Engineering Profession**

Professional practice of engineering. Laws, ethics, engineering economy, liability, insurance, and contracts. Prerequisite: Senior standing or Instructor permission.

Credits: 3.

**ME 161 - Manufacturing Engineering I**

Mechanical and thermal processing of metallic and nonmetallic materials; casting, forming, cutting, grinding, joining, high energy forming, EDM, ECM, Laser, and ultrasonic. Prerequisite: Senior ME standing.

Credits: 3.

**ME 162 - Manufacturing Engineering II**

Machine tools engineering, flexible manufacturing systems, robotics in manufacturing, automatic factory, computer-aided manufacturing.

Credits: 3.

**ME 170 - Mechanical Design I**

Advanced mechanics of materials, stress strain, bending and torsion of slender members, energy methods, finite element modeling, and CAD topics including parametric and solid modeling. Prerequisite: ME 101.

Credits: 4.

**ME 171 - Design of Elements**

Mechanical fatigue criteria, fatigue analysis and design of springs, bolted/welded joints, gearing, shafts, bearings, power transmission. Computer-aided design and analysis. Prerequisite: Junior standing; ME 014.

Credits: 3.

**ME 172 - Design of Systems**

Design synthesis and optimization; probabilistic aspects in design; expert systems in design. Prerequisite: ME 171.

Credits: 3.

**ME 174 - Industrial Design Project**

Design projects from industry. Prerequisite: ME 171.

Credits: 1.

**ME 183 - Mechanical Engineering Lab IV**

of a specified product. Prerequisite: Senior standing Advanced engineering experimentation, data collection and reduction techniques applied to areas of mechanical engineering; projects involving "design for manufacturing" in

Mechanical Engineering.

Credits: 3.

**ME 185 - Senior Project**

An individual engineering study designed to particular interest of the student, utilizing and synthesizing the student's total mechanical engineering educational experience. Prerequisite: Senior standing.

Credits: 1 or 2.

**ME 186 - Senior Project**

An individual engineering study designed to particular interest of the student, utilizing and synthesizing the student's total mechanical engineering educational experience. Prerequisite: Senior standing.

Credits: 1 or 2.

**ME 191 - Senior Thesis**

Investigation of a research or design project under supervision of assigned staff member culminating in acceptable thesis. Prerequisite: Senior standing; department permission.

Credits: 3.

**ME 193 - College Honors**

Credits: 1-3.

**ME 194 - College Honors**

Credits: 1-6.

**ME 195 - Special Topics**

Prerequisite: Senior standing in Civil or Mechanical Engineering.

Credits: 1-18.

**ME 203 - Machinery Analysis & Synthesis**

Kinematic and kinetic analysis of two- and three-dimensional machines; kinematic synthesis, electromechanical and servo mechanisms; application to robotic mechanisms. Prerequisite: Senior standing in ME.

Credits: 3.

**ME 207 - Biomechanics I**

Introduction to the structure and mechanics of the musculoskeletal system. Application of mechanics to bone, tendon, ligaments, and other biological materials. Prerequisite: Senior or graduate standing in ME, or instructor permission.

Credits: 3.

**ME 208 - Biomechanics II**

Introduction to biomaterials and the mechanical behavior of bioviscoelastic fluids or solids. Prerequisite: 207 or instructor permission.

Credits: 3.

**ME 209 - Biofluid Dynamics**

Fluid dynamics of human physiology. Circulatory and respiratory mechanics, steady and unsteady laminar flow, pulse wave reflections, curved and collapsible tube flow, turbulence. Prerequisite: 143 or equivalent.

Credits: 3.

**ME 234 - Mechanical Vibrations**

Analysis, measurement, and control of mechanical vibrations; SDOF, MDOF, and rotating systems, forced, free, and random vibrations. Prerequisite: ME 111 or Senior/ Graduate standing in engineering or physical sciences.

Credits: 3.

**ME 235 - Turbomach Vibration Anyl/Tstng**

Vibration in rotating machines; vibration measurement techniques; machinery condition and degradation; condition monitoring and predictive maintenance; industrial vibration techniques including proximity probes, accelerometers, FFT analyzer. Prerequisite: ME 244.

Credits: 2.

**ME 241 - Combustion Processes**

Combustion thermodynamics; chemical kinetics; laminar flames, premixed and diffusion; turbulent flames; ignition, explosion, and detonation; droplet combustion; flame spread; large scale fires; rocket combustion. Prerequisite: Senior/Graduate standing.

Credits: 3.

**ME 242 - Adv Engr Thermodynamics I**

Foundations of statistical mechanics. Gases and crystals. Chemical equilibrium. Irreversible processes. Prerequisite: Senior/Graduate standing or permission.

Credits: 3.

**ME 243 - Inviscid Flow**

Eulerian and Lagrangian descriptions of motion. Potential flow. Thin-airfoil theory and numerical methods. Linear wave theory. Flow stability. Linearized subsonic and supersonic flow. Prerequisite: 143.

Credits: 3.

**ME 244 - Intro to Turbomachinery Anyl**

Fundamental turbomachinery principles of fluid mechanics, thermodynamics, and structural analysis; basic equations and computational techniques for analysis and design to model and evaluate turbomachinery. Prerequisite: ME 243, MATH 271.

Credits: 2.

**ME 245 - Advanced Heat Transfer I**

Transient heat conduction; integral methods; convection; formulation and solution; boiling, condensation; radiant heat exchange in enclosures and with emitting-absorbing gases, advanced view factors. Prerequisite: Senior standing in ME or instructor's permission.

Credits: 3.

**ME 246 - Centrifugal Compressors**

Fluid dynamic and thermodynamic principles of centrifugal compressor design and design practice; limits of stable operation and instability prediction and control.

Prerequisite: ME 244.

Credits: 2.

**ME 247 - Centrifugal Pumps**

Centrifugal pump design principles and practice; performance limits; cavitation; design tools and pump design optimization. Prerequisite: ME 244.

Credits: 2.

**ME 248 - Turbomachinery Special Topics**

Content in axial fans/compressors; axial, radial, or steam turbines; CFD, dynamics/rotordynamics, or materials for turbo-machinery; power plant or refrigeration cycle developments; turbocharged and compound IC-engines.

Prerequisite: ME 244.

Credits: 1 or 2.

**ME 249 - Computational Fluids Engr**

Computational methods for solving the Navier-Stokes equations and combined thermo-fluid flows; finite-differences and finite-volume techniques; use of standard commercial CFD software. Prerequisites:

Credits: 3.

**ME 252 - Mechanical Behavior Materials**

Elastic and plastic behavior of single crystals; dislocations; approximate plastic analysis; anisotropic materials; hardness; fractures; fatigue; damping; creep and surface phenomena. Prerequisite: 101, permission. Credit given for 252 or 272, not both.

Credits: 3.

**ME 253 - Corrosion of Materials**

Corrosion principles: electrochemical, environmental, and metallurgical aspects. Corrosion testing. Corrosion prevention. Seawater corrosion. Biological corrosion. Material selection. Prerequisite: 101. Credit given for 253 or 273, not both.

Credits: 3.

**ME 255 - Adv Engineering Materials**

Phase diagrams. Thermodynamics of crystals, alloys. Defects. Phase transformations. Heat treatment of steels. Prerequisites: Senior or graduate standing, or instructor's permission.

Credits: 3.

**ME 257 - Composite Materials**

Fibers, matrices. Unidirectional and short fiber composites. Experimental characterization. Prerequisite: 101. Credit given for 257 or 277, not both.

Credits: 3.

**ME 265 - Integrated Product Development**

(See Business Administration 293.) Prerequisite: Senior standing.

Credits: 3.

**ME 270 - Structural Dynamics**

Vibrations, matrices, earthquake engineering, stability and wave propagation.

Prerequisites: Senior or graduate standing in engineering or physical sciences, or instructor permission. Cross-listed with CE 272.

Credits: 3.

**ME 281 - Seminar**

Presentation and discussion of advanced mechanical engineering problems and current developments. Prerequisite: Senior/Graduate engineering enrollment.

Credits: 1.

**ME 282 - Seminar**

Presentation and discussion of advanced mechanical engineering problems and current developments. Prerequisite: Senior/Graduate engineering enrollment.

Credits: 1.

**ME 283 - Lab Techniques Turbomach Dev**

Instruments and transducers for performance, flow, and structural measurements in turbo-machinery; the role of test data in design and development; experimental data acquisition and processing. Prerequisite: ME 244.

Credits: 2.

**ME 285 - Biomedical Engineering Seminar**

Presentation and discussion of advanced biomedical engineering problems and current research developments.

Credits: 1.

**ME 295 - Special Topics**

Prerequisite: Senior/Graduate standing.

Credits: 1-3.

**ME 301 - Intro Biomedical Engineering**

Introduction to basic biomedical engineering science; biomedical computing and pattern recognition, biomedical instrumentation and signal analysis, biomechanics, biomaterials, rehabilitation engineering, physiological transport phenomena, intelligent systems.

Credits: 3.

**ME 304 - Adv Engineering Analysis I**

Problems in analysis in engineering, including ordinary and partial differential equations, special functions, matrices, tensor analysis, variational calculus, complex variables, perturbation methods. Prerequisites: Math. 271 or Math. 230; ME 304 for ME 305. Cross-listings: CE 304, 305; Math 275, 276.

Credits: 3.



**ME 305 - Adv Engineering Analysis II**

Problems in analysis in engineering, including ordinary and partial differential equations, special functions, matrices, tensor analysis, variational calculus, complex variables, perturbation methods. Prerequisites: Math. 271 or Math. 230; ME 304 for ME 305. Cross-listings: CE 304, 305; Math 275, 276.

Credits: 3.

**ME 320 - Special Problems in Elasticity**

Advanced topics in the theory of elasticity in which there is a particular student and staff interest.

Credits: 3.

**ME 321 - Special Problems in Fluid Mech**

Advanced topics in fluid mechanics in which there is a particular student and staff interest.

Credits: 3.

**ME 322 - Special Problems in Dynamics**

Advanced topics in dynamics in which there is a particular student and staff interest.

Credits: 3.

**ME 323 - Special Prob in Thermodynamics**

Advanced topics in thermodynamics in which there is a particular student and staff interest.

Credits: 3.

**ME 324 - Spec Problems in Heat Transfer**

Advanced topics in heat transfer in which there is a particular student and staff interest.

Credits: 3.

**ME 325 - Special Problems in Materials**

Advanced topics in behavior of materials in which there is a particular student and staff interest.

Credits: 3.

**ME 330 - Matrix Meth in Struct Dynamics**

Matrices, eigenvalue problems, forced vibration, wave propagation.

Credits: 3.

**ME 332 - Engineering Elasticity**

Tensors, complex variables, variational methods.

Credits: 3.

**ME 333 - Stress Analysis**

Theory and experimental method of measuring static and dynamic stress and strain.

Credits: 3.

**ME 336 - Continuum Mechanics**

Tensors, conservation laws, field equations for solids and fluids.

Credits: 3.

**ME 338 - Advanced Dynamics**

Application of Lagrange's equation, Hamilton's principle to mechanical systems. Systems with constraints. Matrix formulation of problems in kinematics, dynamics. Stability of linear, nonlinear systems.

Credits: 3.

**ME 342 - Advanced Combustion**

or equivalent.

Credits: 3.

**ME 343 - Advanced Fluid Dynamics**

theory; transient flows; free laminar, turbulent flows; Stress in continuum; kinematics, dynamics; potential fields; Wing theory; Navier-Stokes equation; hydrodynamic stability; turbulence; laminar, turbulent boundary layer mixing.

Credits: 3.

**ME 344 - Adv Eng Thermodynamics II**

Microscopic thermodynamics; Maxwell-Boltzmann, Bose-Einstein, Fermi-Dirac statistics; kinetic theory of gases; transport properties, compressed gases, liquids, solid states; chemical systems; irreversible processes; fluctuations.

Credits: 3.

**ME 345 - Advanced Heat Transfer II**

Generalized equation of heat conduction; classical integral transforms, approximate solutions; thermal boundary layers; forced and free convection; condensation, boiling, ablative cooling; radiation, statistical theory; mass transfer.

Credits: 3.

**ME 346 - Advanced Gas Dynamics**

Compressible flow in ducts; friction, heat transfer; shock waves; small perturbation theory; high speed flows; transonic, supersonic, hypersonic flows; methods of characteristics. Aerodynamic heating; rarified gas flows.

Credits: 3.

**ME 371 - Adv Engr Des Anyl&Synthesis I**

Application of fundamental concepts, principles of advanced mathematics, physics, mechanics, electricity, thermodynamics, fluid dynamics, heat transfer, and decision-making processes to design, analysis, synthesis of complex engineering systems.

Credits: 4.

**ME 372 - Systems Engineering**

Instructor permission.

Credits: 3.

**ME 373 - Integr Mechanism Design Anyl**

ME 371 or Instructor permission. Application of system analysis, rigid body dynamics, finite elements, fatigue analysis and structural dynamics to an integrated approach to mechanisms design. Prerequisites:

Credits: 3.

**ME 391 - Master's Thesis Research**

Credits: 1-18.

**ME 395 - Advanced Special Topics**

Advanced topics in recently developed technical areas. Prerequisites: three hours with Instructor permission.

Credits: 1-3.

**ME 491 - Doctoral Dissertation Research**

Credits: 0-18.

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Colleges and Schools > College of Engineering and Mathematics > Requirements > College of Engineering and Mathematics Undergraduate Academic Standards

## College of Engineering and Mathematics Undergraduate Academic Standards

In order to continue as a major in the College of Engineering and Mathematics, a student must achieve a 2.0 cumulative grade-point average at the end of the semester in which 60 cumulative credit hours have been attempted. No more than three repeated course enrollments are allowed during this 60-credit period. In the case of transfer students, applicable transfer credits will be included in determining the 60 credit hours, but grades in these courses will not be included in the grade-point average.

Students who receive a cumulative or semester grade-point average of less than 2.0 will be placed on trial. Students who have failed half their course credits for any semester, or who have had two successive semester averages below 2.0, or three successive semesters in which their cumulative grade-point average falls below 2.0, are eligible for dismissal.

To receive a degree, students must have a minimum cumulative average of 2.0. Students must complete 30 of the last 45 hours of credit in residence at UVM as matriculated students in the College of Engineering and Mathematics. Additional degree requirements are specified for each major.

No more than three grades of D, D+, or D- in the courses normally taken as part of the junior and senior curriculum in the student's major program will be acceptable. Requirements in each department are specified by the respective program curriculum committees.

A course may not be taken for credit if it is a prerequisite to one for which credit has already been granted, except by permission of the student's advisor.

Only two credits of physical education will count toward the total credits needed for graduation.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Students must comply with the degree requirements as stated in a single catalogue edition in place during the time they are enrolled. The catalogue edition to be followed is the one in effect at the time the student enrolls at UVM, unless the student requests in writing to follow an edition that is published subsequently during his/her enrollment at UVM. Students may not mix requirements from different catalogues.

**First year students:** Students who receive a cumulative GPA less than 1.67 after the first year are in danger of not being able to complete a degree in the College of Engineering and Mathematics. These students will be required to reassess their academic direction with the aid of their advisor and the Academic Dean.

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Colleges and Schools > College of Engineering and Mathematics > Requirements > College of Engineering and Mathematics Undergraduate Cooperative Education Program

## College of Engineering and Mathematics Undergraduate Cooperative Education Program

A cooperative education (CO-OP) program is offered to students with cumulative grade-point averages placing them in the upper half of their class. Before acceptance, each candidate must be interviewed and approved by the program coordinator and the prospective employer. The program lets students apply their learning to a full-time, paid position in a business, industrial, or government setting.

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Colleges and Schools > College of Engineering and Mathematics > Requirements > College of Engineering and Mathematics Undergraduate Honors Thesis Program

## College of Engineering and Mathematics Undergraduate Honors Thesis Program

The undergraduate thesis program, designed for the superior student with unusual initiative and intellectual curiosity, provides an opportunity to pursue a special program without the restrictions of classroom routine. The honors thesis program consists of reading, research, design, or creation in a curricular area of the student's choice, leading to a written thesis. At the time of graduation, the student's transcript and the graduation program will be appropriately denoted with "Honors Thesis" and the title of the thesis, provided that honor's level performance has been demonstrated.

The student must be matriculated in the College at the time of application for the thesis program and have a cumulative grade-point average of at least 3.0 for sophomore and junior work. The curriculum committee of the area offering the thesis course establishes the mechanics for thesis review and awarding of the grade. The thesis proposal must be approved by the College of Engineering and Mathematics Studies Committee prior to the Add/Drop deadline of the student's first semester or summer session of matriculation into the honor's thesis program. This should allow two semesters or a full summer and one semester of planned effort for the thesis research.

A thesis committee consists of at least three UVM faculty, at least two of whom are from the offering area. The chair of the committee, a permanent UVM faculty member, is also from the offering area. This committee serves to advise the student, approves of the thesis proposal before its submission to the Studies Committee, and approves of the oral defense of the thesis. The course grade is assigned by the committee chair based on consultation with the thesis committee. Six credits of effort are expected for the thesis, normally as three credits each in two semesters. Some programs within the College require senior projects as part of their prescribed curricula. Such projects can provide alternative opportunities to students interested in a design or research challenge.

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Colleges and Schools > College of Engineering and Mathematics > Requirements > Requirements for All Undergraduate Degree Students

## Requirements for All Undergraduate Degree Students

### College and School Requirements

Undergraduate degrees are conferred on the recommendation of the colleges/schools. Specific degree requirements may be found in the catalogue sections devoted to the respective colleges/schools.

### Grades

To be eligible for graduation, a student must have attained a cumulative grade-point average sufficient to meet the minimum requirements for the college/school in which the student is officially enrolled. Beginning with the class of 1984, the minimum grade-point average for graduation is 2.00. Grades in courses accepted for transfer credit are excluded in computing this average.

### UVM Residency in Last 30 of 45 Credit Hours

Every degree candidate must have taken 30 of the last 45 credit hours (15 of the last 30 for two-year students) in residence at the University before being awarded their degree. An exception to this rule exists for those students who have completed three years of premedical study in the University and are awarded their degrees after successful completion of one year of study in any approved college of medicine. Other exceptions to this rule may be made only upon decision of the dean or the appropriate faculty committee of the student's college/school.

### Second Bachelor's Degree

A student may earn more than one degree by satisfying all of the requirements for those degrees.

## Education

### Physical Education Requirement

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Two physical education credits, normally completed during the first or sophomore year, are required of all undergraduate students in four-year programs. These credits will be included in the total number of hours required for graduation. Students may opt to take physical education on a pass/no pass basis. Medical examinations are required of all new students. Those with serious conditions may be given restricted work or may be excused by the Director of the Student Health Center.

Students 25 years of age or older at time of admission or readmission are exempt from physical education requirements.

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## College of Medicine (COM)



### Contact Information

*University of Vermont  
College of Medicine  
E-126 Given Building  
89 Beaumont Ave.  
Burlington, VT 05405-0068*

Phone: (802) 656-2156  
Fax: (802) 656-8577  
Email: [MedAdmissions@uvm.edu](mailto:MedAdmissions@uvm.edu)

[Web Site](#)

### Overview

The UVM College of Medicine is one of the oldest and most respected medical schools in the nation. Since its establishment in 1822, the College's mission has been the education of undergraduate and medical students. This has evolved to include the education of residents, graduate students, and postdoctoral fellows, as well as continuing medical education of health professionals in the state, region, and the nation. During the past 30 years the College's mission has embraced cutting-edge health research, accessible high quality patient care, and community/ public service. Physicians educated or trained at the UVM College of Medicine and its affiliated health care organization  Fletcher Allen Health Care  are a vital part of the region's health care work force, accounting for nearly half of Vermont's physicians.

This catalogue includes the M.S. and Ph.D. programs that are offered in conjunction with the Graduate College. Information on M.D. programs is available on the College of Medicine Web site listed above.

### In this College

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College of Medicine only has two Undergraduate programs. The rest of the Academic Offerings are all Graduate level. See the Graduate Catalogue for these listings.

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Colleges and Schools > College of Medicine > Departments and Programs > Microbiology and Molecular Genetics Department

## Microbiology and Molecular Genetics Department

### Contact Information

*University of Vermont  
Microbiology and Molecular Genetics  
Department  
201 Stafford Hall  
Burlington, VT 05405*

Phone: (802) 656-2164

Fax: (802) 656-8749

Email: [mmg@uvm.edu](mailto:mmg@uvm.edu)

[Web Site](#)

### Overview

Undergraduates who undertake studies in the Department of Microbiology and Molecular Genetics receive instruction in the classroom and in state-of-the-art teaching and research laboratories. The Department offers either a Microbiology or a Molecular Genetics major or minor as well as courses in the areas of molecular genetics, general, clinical, and environmental microbiology, virology, and immunology which are available to students in other programs. Numerous research opportunities provide undergraduates with close interactions with faculty at the cutting edge of microbiology using molecular genetics technology.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Medicine](#)

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## Microbiology and Molecular Genetics Department: Academic Offerings

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Colleges and Schools > College of Medicine > Departments and Programs > Microbiology and Molecular Genetics Department > Academic Offerings > Microbiology (B.S.)

## Microbiology (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
- [College of Agriculture and Life Sciences Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

The Microbiology and Molecular Genetics core courses total 65 credits. The courses comprising the core are: biology, biochemistry, genetics, inorganic and organic chemistry, mathematics, general microbiology, molecular genetics, cell biology, physics, and statistics. In addition to the core requirements departmental majors take a minimum of 15 credit hours from an array of approved elective courses including undergraduate research.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#). [College of Medicine](#)
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## Microbiology (Undergraduate Minor)

### Specific Requirements

Core requirements are [MMG 101](#) and [MMG 104](#), [BCOR 101](#), [BCOR 103](#); plus an additional six credit hours of MMG courses chosen from [MMG 195/MMG 196](#), [MMG 201](#), [MMG 203](#), [MMG 211](#), [MMG 220](#), [MMG 222](#), [MMG 223](#), [MMG 225](#), [MMG 240](#), [MMG 295/MMG 296](#), [MMG 320](#), depending on student needs.

*Agriculture and Life Sciences Majors:* Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Microbiology and Molecular Genetics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

*Arts and Sciences Majors:* A student may minor in Microbiology and Molecular Genetics upon permission of the departmental Undergraduate Affairs Committee and assignment of a minor advisor within the department who will direct the student's program plan and course selection.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#), [College of Medicine](#)
- Departments and Programs: [Microbiology and Molecular Genetics Department](#).

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## Molecular Genetics (Bachelor of Science)

### General Requirements

- [College of Agriculture and Life Sciences Core Curriculum](#)
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### Specific Requirements

The Microbiology and Molecular Genetics core courses total 65 credits. The courses comprising the core are: biology, biochemistry, genetics, inorganic and organic chemistry, mathematics, general microbiology, molecular genetics, cell biology, physics, and statistics. In addition to the core requirements departmental majors take a minimum of 15 credit hours from an array of approved elective courses including undergraduate research.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#), [College of Medicine](#)
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## Molecular Genetics (Undergraduate Minor)

### Specific Requirements

Core requirements are [MMG 101](#), [MMG 104](#), [BCOR 101](#), [BCOR 103](#); plus an additional six credit hours of MMG courses chosen from [MMG 195/MMG 196](#), [MMG 201](#), [MMG 203](#), [MMG 211](#), [MMG 223](#), [MMG 225](#), [MMG 231](#), [MMG 240](#), [MMG 295/MMG 296](#), [MMG 312](#), [MMG 320](#), [MMG 352](#), depending on students needs.

*Agriculture and Life Sciences Majors:* Any student in the College of Agriculture and Life Sciences interested in enrolling in this minor should contact the Microbiology and Molecular Genetics Department. If accepted, the student will be assigned a "minor advisor" from the department who must approve all program plans and course selections. Students in the College may enroll, on a space available basis, in minors listed under the School of Natural Resources and in minors offered campus wide.

*Arts and Sciences Majors:* A student may minor in Microbiology and Molecular Genetics upon permission of the departmental Undergraduate Affairs Committee and assignment of a minor advisor within the department who will direct the student's program plan and course selection.

### Affiliations

- Colleges and Schools: [College of Agriculture and Life Sciences](#), [College of Medicine](#)
- Departments and Programs: [Microbiology and Molecular Genetics Department](#).

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## Courses in Micr & Molecular Genetics

### MMG 065 - Microbiology & Pathogenesis

Overview of microbiology, emphasizing the relationships between the structure, metabolism, and genetics of microorganisms and their roles in nature and in pathogenesis. Prerequisite: One semester chemistry. Not intended for students who have completed BIOL 001 and BIOL 002 or equivalent. Fall.

Credits: 4.

### MMG 095 - Special Topics

Credits: 1-3.

### MMG 096 - Special Topics

Credits: 1-3.

### MMG 101 - Biology of Microorganisms

An introduction to the biology of microorganisms, encompassing their diversity, metabolism, pathogenesis, and ecology. Prerequisites: One semester of chemistry and biology, or equivalent, or instructor's permission. Fall.

Credits: 4.

### MMG 104 - Intro Recombinant DNA Tech

restriction. Introduction to the basic principles and techniques used in recombinant DNA technology. Pre/co-requisites: BCOR 11/12 and a Microbiology or Molecular Genetics major or minor

Credits: 2.

### MMG 195 - Special Topics

Prerequisite: Instructor's permission. Credits negotiable.

Credits: 1-6.

### MMG 196 - Special Topics

Education

Prerequisite: Instructor's permission. Credits negotiable.

Credits: 0-6.

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

**MMG 197 - Undergrad Research**

Undergraduate honors students accommodated in individual research projects sponsored by department member. Arrangement with individual department member and department chairperson approval. Credits negotiable.

Credits: 1-6.

**MMG 198 - Undergrad Research**

Undergraduate honors students accommodated in individual research projects sponsored by department member. Arrangement with individual department member and department chairperson approval. Credits negotiable.

Credits: 1-6.

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**MMG 201 - Molecular Cloning Lab**

Intensive advanced laboratory course in the fundamentals of recombinant DNA technology through the isolation and characterization of a unique gene.

Prerequisite: 102 or equivalent. Fall.

Credits: 3.

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**MMG 203 - Mamm Cell Cult:Molecular Biol**

The basic principles and techniques of mammalian cell culture, as well as cell and mammalian molecular genetics. Prerequisite: Permission of coordinator. Alternate years, Spring.

Credits: 4.

**MMG 205 - Biochemistry I**

Introduction to chemistry and structure of biological macromolecules; examination of mechanisms of chemical processes in biological systems, including enzyme catalysis, BIOC 205 and CHEM 205. UG only. Fall.

Credits: 3.

**MMG 206 - Biochemistry II**

Continuation of Biochemistry I. Biochemistry of nucleic acids; nucleic acid based processes, such as replication and transcription; cellular information Crosslisted with BIOC 206 and CHEM 206. UG only. Spring.

Credits: 3.

**MMG 207 - Biochemistry Lab**

with BIOC 207 and CHEM 207. UG only. Introduction to biochemical tools, including natural and recombinant enzyme isolation; assays of DNA-modifying enzymes; computer-based structure/function exercises. Corequisites: 205 or 206. Crosslisted spectrometry, chromatography, and electrophoresis;

Credits: 2.

**MMG 211 - Prokaryotic Molecular Genetics**

The organization, replication, and expression of genes in prokaryotes, focusing on the genetics of Escherichia coli and its viruses. Prerequisite: Introductory

microbiology, biochemistry, genetics, and/or cell biology courses. Fall.

Credits: 3.

**MMG 220 - Environmental Microbiology**

The activities of microorganisms, primarily bacteria, in air, soil, and water.

Prerequisite: A previous course in microbiology. Alternate years.

Credits: 3.

**MMG 222 - Clinical Microbiology**

Comprehensive study of human pathogenic microorganisms and their disease states in humans, which includes pathogenic bacteriology, medical mycology, and virology. Laboratory sessions provide practical experience in handling and identifying these pathogens. Prerequisite: 65 or 101 or equivalent. Spring.

Credits: 4.

**MMG 223 - Immunology**

Analysis of the immune response with respect to structure and function of immunoglobulins and the T-cell receptor, tolerance, innate and adaptive immunity, the Major Histocompatibility Complex, hypersensitivity states, transplantation, cancer, and AIDS. Prerequisite: Instructor's permission. Alternate years. Fall.

Credits: 3.

**MMG 225 - Eukaryotic Virology**

An in-depth analysis of eukaryotic virus-mammalian cell interactions emphasizing mechanisms by which viruses modulate gene expression in infected cells.

Prerequisite: 101 or 102 or equivalent. Alternate years. Fall.

Credits: 3.

**MMG 231 - Bioinformatics**

Fall.

Credits: 3.

**MMG 240 - Macromol Struct Prot&Nucl Acid**

Introduction to structural biology and macromolecular structure with an emphasis on protein-protein and protein-nucleic acids interactions. Prerequisites: Biology 1, 2; Organic Chemistry; Junior standing recommended; concentration in Physics. (Cross-listed with BIOC 240) Alternate years, not approved for graduate credit. Spring.

Credits: 3.

**MMG 295 - Special Topics**

Supervised investigations in microbiology or molecular genetics. Prerequisite: Instructor permission. Credit as arranged.

Credits: 1-6.

**MMG 296 - Special Topics**

Supervised investigations in microbiology or molecular genetics. Prerequisite: Instructor permission. Credit as arranged.

Credits: 0-6.

**MMG 302 - Medical Microbiology**

Fundamentals of pathogenic microbiology emphasizing mechanisms of disease production and mechanisms of resistance to infection. The ecologic rather than taxonomic approach is stressed. Primarily for Medical students.

Credits: 8.

**MMG 310 - Current Topics in MMG**

Seminar to focus on specific issues at the forefront of current research in molecular genetics. Meetings will involve student presentation and discussion of research articles. Prerequisite: Permission of Coordinator.

Credits: 2.

**MMG 312 - Eukaryotic Molecular Genetics**

The use of lower eukaryotes, such as the yeasts *Saccharomyces cerevisiae* and *Schizosaccharomyces pombe*, as model genetic systems to answer questions of basic biological importance. Prerequisites: Instructor permission; MMG 233 and CLBI 301, or equivalent.

Credits: 3.

**MMG 320 - Cellular Microbiology**

Utilizes primary literature to explore the cellular and molecular basis of microbial pathogenesis caused by viruses, pathogenic bacteria and protozoan parasites.

Alternate years. Spring.

Credits: 4.

**MMG 332 - Critical Reading**

Students will participate in group discussions to critically evaluate and interpret the experimental data from one assigned paper from the scientific literature per week.

Prerequisite: Permission of Coordinator. Fall.

Credits: 1.

**MMG 352 - Protein:Nucleic Acid Interact**

Structure of DNA and RNA, and the structure and assembly of nucleoprotein complexes will be described using examples from prokaryotes, yeast, viruses, and mammalian cells in culture. Prerequisite: MMG 211 or equivalent; AGBI 201 or BIOC 301; BIOC 302 or equivalent. Cross-listed with: BIOC 352. Alternate years. Spring.

Credits: 3.

**MMG 391 - Master's Thesis Research**

Credits: 1-18.

**MMG 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## Faculty for Microbiology and Molecular Genetics Department

Richard Joseph Albertini

Professor of Microbiology and Molecular Genetics Emeritus

Professor of Pediatrics Emeritus

Appointed in [2004](#)

[Microbiology and Molecular Genetics Department](#)

[Pediatrics Department](#)

BS 1960 [University of Wisconsin Madison](#)

MD 1963 [University of Wisconsin Madison](#)

PHD 1972 [University of Wisconsin Madison](#)

[Search Courses for Richard Albertini](#)

Erik Alan Bateman

Research Associate Professor of Microbiology and Molecular Genetics

Appointed in [1988](#)

[Microbiology and Molecular Genetics Department](#)

BSC 1977 [Sussex University](#)

PHD 1983 [Reading University](#)

[Search Courses for Erik Bateman](#)

Jeffrey P. Bond

Professor of Microbiology and Molecular Genetics

Appointed in [1995](#)

[Computer Science Department](#)

[Microbiology and Molecular Genetics Department](#)

BS 1983 [University of Rochester](#)

MS 1986 [University of Rochester](#)

Education [PHD 1989 University of Rochester](#)  
[Search Courses for Jeffrey Bond](#)

• Graduate College

• Honors College

• School of Business  
Administration

• The Rubenstein  
School of  
Environment and  
Natural Resources

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Gerard George Bouffard  
Adjunct Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [2002](#)  
[Microbiology and Molecular Genetics Department](#)

BS 1984 [University of Vermont](#)  
PHD 1994 [George Washington University](#)  
[Search Courses for Gerard Bouffard](#)

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John MacKenzie Burke  
Professor of Microbiology and Molecular Genetics  
Appointed in [1988](#)

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[Microbiology and Molecular Genetics Department](#)  
AB 1975 [Middlebury College](#)  
MS 1979 [University of Vermont](#)

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PHD 1983 [Massachusetts Institute of Technology](#)  
[Search Courses for John Burke](#)

---

Sylvie Doublet  
Director of Undergraduate Biochemistry  
Professor of Microbiology and Molecular Genetics  
Appointed in [1998](#)  
[Biochemistry Department](#)  
[Microbiology and Molecular Genetics Department](#)  
DEA 1988 [University of Paris XI](#)  
PHD 1993 [University of North Carolina Chapel Hill](#)  
[Search Courses for Sylvie Doublet](#)

---

Julie Dragon  
Research Associate of Microbiology and Molecular Genetics  
Appointed in [1997](#)  
[Microbiology and Molecular Genetics Department](#)  
BA 1991 [University of Vermont](#)  
PHD 2006 [University of Vermont](#)  
[Search Courses for Julie Dragon](#)

---

Christopher Steward Francklyn  
Professor of Biochemistry  
Professor of Microbiology and Molecular Genetics  
Appointed in [1992](#)  
[Biochemistry Department](#)



[Microbiology and Molecular Genetics Department](#)  
[Neuroscience Graduate Program](#)  
BA 1979 [University of California Santa Barbara](#)  
MA 1983 [University of California Santa Barbara](#)  
PHD 1988 [University of California Santa Barbara](#)  
[Search Courses for Christopher Francklyn](#)

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Eunice H. Froeliger  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Research Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [1988](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1971 [University of Connecticut](#)  
MED 1977 [University of Vermont](#)  
PHD 1988 [University of Vermont](#)  
[Search Courses for Eunice Froeliger](#)

---

Gregory Michael Gilmartin  
Associate Professor of Microbiology and Molecular Genetics  
Appointed in [1990](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1978 [Michigan State University](#)  
PHD 1983 [University of Virginia](#)  
[Search Courses for Gregory Gilmartin](#)

---

Kenneth J. Hampel  
Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [1994](#)  
[Microbiology and Molecular Genetics Department](#)  
BSC 1989 [University of Saskatchewan](#)  
PHD 1994 [University of Saskatchewan](#)  
[Search Courses for Kenneth Hampel](#)

---

Burt Benjamin Hamrell  
Professor of Medicine Emeritus  
Professor of Molecular Physiology and Biophysics Emeritus  
Appointed in [2003](#)  
[Microbiology and Molecular Genetics Department](#)  
MD 1962 [University of Illinois Urbana-Champaign](#)  
PHD 1976 [University of Vermont](#)  
[Search Courses for Burt Hamrell](#)

---

Nicholas H. Heintz

Director of the Cellular, Molecular and Biomedical Sciences Graduate Program

Professor of Microbiology and Molecular Genetics

Professor of Pathology

Appointed in 1983

Microbiology and Molecular Genetics Department

Pathology - General, College of Medicine

BA 1971 Holy Cross College

MS 1977 University of Vermont

PHD 1979 University of Vermont

[Search Courses for Nicholas Heintz](#)

---

Douglas Ian Johnson

Director of the CALS Honors Program

Professor of Microbiology and Molecular Genetics

Appointed in 1988

Microbiology and Molecular Genetics Department

BS 1978 Miami University Oxford

PHD 1983 Purdue University

[Search Courses for Douglas Johnson](#)

---

Beth Diane Kirkpatrick

Professor of Medicine - Infectious Disease

Professor of Microbiology and Molecular Genetics

Appointed in 1999

Infectious Disease, College of Medicine

Microbiology and Molecular Genetics Department

BS 1988 Bates College

MD 1992 Albany Medical College

[Search Courses for Beth Kirkpatrick](#)

---

Rama Kocherlakota

Research Associate of Microbiology and Molecular Genetics

Appointed in 2001

Microbiology and Molecular Genetics Department

BA 1985 Princeton University

PHD 1989 Harvard University

[Search Courses for Rama Kocherlakota](#)

---

Mariana Laura Matrajt

Research Assistant Professor of Microbiology and Molecular Genetics

Appointed in 2004

Microbiology and Molecular Genetics Department

MS 1993 [University of Buenos Aries](#)  
PHD 1997 [University of Buenos Aries](#)  
[Search Courses for Mariana Matrajt](#)

---

Keith Peter Mintz  
Associate Professor of Microbiology and Molecular Genetics  
Appointed in [1991](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1977 [SUNY Binghamton](#)  
MS 1979 [West Virginia University](#)  
PHD 1990 [University of Vermont](#)  
[Search Courses for Keith Mintz](#)

---

Scott Walker Morriscal  
Professor of Biochemistry  
Professor of Microbiology and Molecular Genetics  
Appointed in [1992](#)  
[Biochemistry Department](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1982 [Wichita State University](#)  
PHD 1987 [University of Wisconsin Madison](#)  
[Search Courses for Scott Morriscal](#)

---

David Scott Pederson  
Professor of Microbiology and Molecular Genetics  
Appointed in [1988](#)  
[Microbiology and Molecular Genetics Department](#)  
AB 1976 [University of Chicago](#)  
MS 1980 [University of Rochester](#)  
PHD 1983 [University of Rochester](#)  
[Search Courses for David Pederson](#)

---

Stephanie F. Phelps  
Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [2004](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1998 [McGill University](#)  
MS 2004 [University of Vermont](#)  
[Search Courses for Stephanie Phelps](#)

---

Carlene Allen Raper  
Research Associate Professor of Microbiology and Molecular Genetics Emerita  
Appointed in [1983](#)

Microbiology and Molecular Genetics Department

BS 1946 University of Chicago

MS 1948 University of Chicago

PHD 1977 Harvard University

Search Courses for Carlene Raper

---

Warren R. Stinebring

Professor of Microbiology Emeritus

Microbiology and Molecular Genetics Department

Search Courses for Warren Stinebring

---

Brenda V. Tessmann

Assistant Professor of Microbiology and Molecular Genetics

Appointed in 1981

Microbiology and Molecular Genetics Department

BS 1973 University of Vermont

MS 1980 University of Vermont

Search Courses for Brenda Tessmann

---

Markus Josef Thali

Professor of Microbiology and Molecular Genetics

Appointed in 1999

Microbiology and Molecular Genetics Department

DNAT 1985 University of Zurich

PHD 1990 University of Zurich

Search Courses for Markus Thali

---

Mary Laretta Tierney

Associate Professor of Microbiology and Molecular Genetics

Associate Professor of Plant Biology

Appointed in 1993

Graduate College

Microbiology and Molecular Genetics Department

Plant Biology Department

BS 1976 Marywood University

PHD 1983 Michigan State University

Search Courses for Mary Tierney

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Susan Scholes Wallace

Chairperson of Microbiology and Molecular Genetics

Professor of Microbiology and Molecular Genetics

Appointed in 1988

[Microbiology and Molecular Genetics Department](#)  
BS 1959 [Marymount College](#)  
MS 1961 [University of California Berkeley](#)  
PHD 1965 [Weill Cornell Medical College](#)  
[Search Courses for Susan Wallace](#)

---

Gary E. Ward  
Professor of Microbiology and Molecular Genetics  
Appointed in [1996](#)  
[Microbiology and Molecular Genetics Department](#)  
BSC 1979 [University New Brunswick](#)  
PHD 1985 [University of California San Diego](#)  
[Search Courses for Gary Ward](#)

---

Umadevi V. Wesley  
Research Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [2001](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1981 [University of Agricultural Sciences](#)  
MS 1983 [University of Agricultural Sciences](#)  
PHD 1994 [SUNY Albany](#)  
[Search Courses for Umadevi Wesley](#)

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## College of Nursing and Health Sciences (CNHS)

### Contact Information

University of Vermont  
 College of Nursing and Health Sciences  
 105 Rowell Building  
 106 Carrigan Drive  
 Burlington, VT 05405-0068

Phone: (802) 656-3858

Fax: (802) 656-2191

Email: [cnhsoss@uvm.edu](mailto:cnhsoss@uvm.edu)

[Web Site](#)

### Overview

The College of Nursing and Health Sciences (CNHS) offers undergraduate and graduate programs in a variety of health care disciplines. The entry-level degree programs prepare the student for initial entry into clinical or laboratory practice and the pursuit of further education. The curricula include rigorous academic preparation and extensive field experience at selected facilities. The graduate programs prepare students for advanced practice in the health care disciplines and to assume leadership roles in practice, education, and research. The faculty of the CNHS is committed to excellence in teaching, the conduct of research that extends knowledge and contributes to the science of each discipline, and public service to improve the health care of citizens of state, national and global communities.

The following entry-level degree programs are offered: Bachelor of Science degree programs in Medical Laboratory Science; Nuclear Medicine Technology; Nursing; and Radiation Therapy. A degree in physical therapy is offered as an entry level graduate

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- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

program for post-baccalaureate applicants, and/or UVM students in progress of completing a bachelor's degree in a specified major. Graduates of the entry-level professional programs are eligible to sit for the appropriate licensure examination and enter practice or otherwise seek employment in the commercial/industrial sector. All of the professional programs needing accreditation and/or state approval for licensure eligibility have achieved and maintain such status. The Radiation Therapy program does not require accreditation and is not accredited at this time.

Non entry-level graduate programs leading to a Master of Science degree include: Movement Science and Rehabilitation; and Nursing (advanced community/public nursing, adult health nursing, primary care nursing, and an accelerated RN-BS-MS track). Both the Movement Science and Rehabilitation and Nursing graduate programs are designed to enhance the clinical and/or academic background of licensed health care professionals and/or prepare them for advanced practice and research.

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## Medical Laboratory Science (Bachelor of Science)

### Overview

This four-year curriculum leading to the baccalaureate degree is accredited by the [National Accrediting Agency for Clinical Laboratory Sciences](#) .

The clinical laboratory scientist is involved in the development, performance, and evaluation of laboratory tests that lead to assessment of health status, diagnosis of disease, and monitoring of therapeutic treatment. The clinical laboratory experience is obtained at Fletcher Allen Health Care Vermont's Academic Medical Center (FAHC) and the Vermont State Health Department Laboratories.

On completion of the baccalaureate program, graduates are eligible for national certification.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Medical Laboratory and Radiation Sciences Requirements](#)

### Specific Requirements

Upon consultation with an advisor, students may follow an individualized curriculum that can lead to certification in one of the clinical laboratory specialties (Microbiology, Chemistry, Hematology, or Immunology).

### Curriculum

FIRST-YEAR		
Course	Credits	
	Fall	Spring

Education	<u>MLRS 001 - First Year Seminar</u>	1	
• Graduate College	<u>MLRS 003 - Medical Terminology</u>	2	
• Honors College	<u>CHEM 031 - Introductory Chemistry</u>	4	
• School of Business Administration	<u>EDSS 011 - Race and Culture</u> (or other)	1	
	ENGS	3	
• The Rubenstein School of Environment and Natural Resources	<u>MATH 010 - Pre-Calculus Mathematics</u> or <u>MATH 019 - Fundamentals of Calculus I</u> (or higher)	3	
	Electives	3	6
	Physical Education Electives		1
	<u>MLRS 034 - Human Blood Cell Biology</u>		3
	<u>CHEM 032 - Introductory Chemistry</u>		4
Policies and General Information	<u>STAT 111 - Elements of Statistics</u> or <u>STAT 141 - Basic Statistical Methods</u>		3
Faculty and Administration	Total	17	17
Catalogue Archives	<b>SOPHOMORE</b>		
	<b>Course</b>	<b>Credits</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>MLRS 123 - Instrumental Analysis</u>	4	
	Physical Education Electives	1	
	<u>ANPS 019/ANPS 020 - Ugr Hum Anatomy &amp; Physiology</u>	4	4
	Electives	6	3
	<u>MLRS 054 - Principles of Microbiology</u>		4
	<u>CHEM 042 - Intro Organic Chemistry</u>		4
	Total	15	15
	<b>JUNIOR YEAR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>MLRS 281 - Applied Molecular Biology</u>	4	
	<u>MLRS 295- Education &amp; Management</u>	3	
	<u>PATH 101 - Intro to Human Disease</u>	3	
	Electives	6	3
	<u>MLS 231- Hematology</u>		3
	<u>BIOC 212 - Biochemistry of Human Disease</u>		3
	<u>MLRS 242/MLRS 244 - Immunology</u>		4
	<u>MLRS 120 - Health Care Ethics</u>		3
	Total	16	16
	<b>SENIOR YEAR</b>		
	<b>Course</b>	<b>Term</b>	
		<b>Fall</b>	<b>Spring</b>
	<u>MLRS 110 - Phlebotomy I</u>	1	

Electives	3	
<u>MLS 255 - Advanced Clinical Microbiology</u>	4	
<u>MLS 262 - Advanced Immunohematology</u>	4	
<u>MLS 222 - Clinical Chemistry</u>	4	
<u>MLS 220 - Clinical Practicum: Chemistry</u> <u>MLS 230 - Clinical Practicum: Hematology</u> <u>MLS 250 - Clinical Practicum: Microbiology</u> <u>MLS 260 - Clinical Practicum: Immunohematology</u>		12
<u>MLRS 111 Phlebotomy II</u>		1
<u>MLS 292 - Topics in MLS</u>		3
Total	16	16
TOTAL CREDITS: 128		

### Affiliations

- Colleges and Schools:College of Nursing and Health Sciences.
- Departments and Programs:Medical Laboratory and Radiation Sciences Department.

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## Nuclear Medicine Technology (Bachelor of Science)

### Overview

This four-year curriculum leading to the baccalaureate degree is accredited by the [Joint Review Committee on Educational Programs in Nuclear Medicine Technology](#) .

Nuclear medicine technology is the medical specialty concerned with the use of small amounts of radioactive materials for diagnosis, therapy, and research. Nuclear medicine provides information about both the structure and function of virtually every major organ system.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Medical Laboratory and Radiation Sciences Requirements](#)

### Specific Requirements

Clinical education takes place at our clinical affiliations. The initial experience is obtained at the Fletcher Allen Health Care (FAHC). The internship will be at an affiliation outside Burlington which will require additional room, meals and transportation expenses.

Students who already have the Associate in Science degree in Nuclear Medicine Technology are encouraged to apply for transfer into the baccalaureate program.

### Clinical Affiliations

- Dartmouth-Hitchcock Medical Center, Hanover, NH
- Fletcher Allen Health Care, Burlington, VT
- Maine Medical Center, Portland, ME

- Education
- Massachusetts General Hospital, Boston, MA
  - Graduate College
  - Honors College

**Note:** The above list of clinical affiliations is subject to change.

- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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## Curriculum

<b>FIRST-YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 001 - First Year Seminar</u>	1	
<u>MLRS 003 - Medical Terminology</u>	2	
<u>CHEM 023 - Outline of General Chemistry</u>	4	
<u>EDSS 011 - Race and Culture</u>	1	
ENGS	3	
<u>MATH 010 - Pre-Calculus Mathematics</u> (or <u>MATH 019</u> )	3	
Physical Education Electives	1	1
Electives		6
<u>MLRS 034 - Human Blood Cells</u>		3
<u>CHEM 026 - Outline of Organic &amp; Biochem</u> or <u>CHEM 042 - Intro Organic Chemistry</u>		4
<u>PSYC 001 - General Psychology</u>		3
Total	15	17
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 140 - Intro Radiologic Science</u>	3	
<u>STAT 111 Elements of Statistics</u> or <u>STAT 141 Basic Statistical Methods</u>	3	
<u>MPBP 019/MPBP 020 UG Human Anatomy &amp; Physiology</u>	4	4
Electives	6	6
<u>NMT 151 - Principals of Nuclear Med Tech</u>		3
<u>NMT 175 - Medical Imaging</u>		3
Total	16	16
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 120 - Health Care Ethics</u>	3	
<u>MLRS 110 - Phlebotomy I</u>	1	
<u>MLRS 295 - Prin Ed &amp; Management</u>	3	
<u>NMT 152- Radiopharmaceuticals</u>	3	
<u>NMT 163 - Nuclear Med Clin Practicum I</u>	1	

<u>PATH 101 - Intro to Human Disease</u>	3	
Electives	3	3
<u>MLRS 111 - Phlebotomy II</u>		1
<u>MLRS 242 - Immunology</u>		3
<u>NMT 153 - Nuclear Med Clin Procedures I</u>		3
<u>NMT 155 - Instrumentation I</u>		3
<u>NMT 164 - Nuclear Med Clin Practicum II</u>		2
Total	17	15
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 289 - Research Writing and Design</u>	3	
<u>NMT 154 - Nuclear Med Clin Procedures II</u>	3	
<u>NMT 156 - Instrumentation II</u>	3	
<u>NMT 263 - Adv Nuclear Med Clin Pract III</u>	3	
Electives	3	
<u>NMT 264 - Nuclear Medicine Internship</u>		17
Total	15	17

**Total Credits: 128**

### Affiliations

- Colleges and Schools:College of Nursing and Health Sciences.
- Departments and Programs:Medical Laboratory and Radiation Sciences Department.

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Colleges and Schools > College of Nursing and Health Sciences > Academic Offerings > Nursing (B.S.)

## Nursing (Bachelor of Science)

### Overview

The Nursing department offers an undergraduate educational program to prepare qualified individuals for the practice of professional nursing and a graduate program for advanced nursing practice. The undergraduate program leads to the Bachelor of Science degree and is approved by the Vermont State Board of Nursing and the [National League for Nursing Accreditation Commission](#) ( 61 Broadway, 33rd floor, New York, NY 10006; 800-664-1656 Ext 153). Graduates of the nursing program are eligible to apply for registered nurse licensure. Students who matriculate in the College of Nursing and Health Sciences are required to complete a Criminal Record Check (CRC) as a prerequisite for placement in many schools and clinical agencies with whom we have affiliation agreements. Evidence of a Criminal Record may prevent students from being eligible for clinical placement, and/or professional licensure.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Applicants must meet the general admission requirements for the University. Financial Aid is available in the form of scholarships, loans, awards, and employment (see section on Financial Aid). A minimum of 128 approved semester hours is required for the Bachelor of Science degree. A grade of C is required in selected cognate nursing prerequisite courses (see Student Handbook for details). A grade of C or better is required in all nursing major courses. A minimum 2.0 overall grade-point average is required to progress to junior year and for graduation. Full-time and part-time plans of studies are available. Students are encouraged to purchase a personal computer.

## Education

Specifications for hardware and software requirements may be found at the division of [Computing and Information Technology's Web site](#) .

## • Graduate College

The curriculum, conducted in four academic years, provides balance in general and professional education. Courses in the sciences  $\blacklozenge$  biological, physical, social, and humanities  $\blacklozenge$  serve as a foundation for the nursing courses.

## • Honors College

## • School of Business Administration

The required courses in the humanities and sciences complement the preparation for nursing as well as contribute to a well-rounded education. Graduates are eligible to apply for licensure as registered nurses and have the foundation for continued formal study in nursing at the master's and doctoral levels.

## • The Rubenstein School of Environment and Natural Resources

**Curriculum**

<b>FIRST-YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<a href="#">CHEM 023 - Outline of General Chemistry</a>	4	
<a href="#">ENG 001 - Written Expression</a>	3	
<a href="#">HDFS 005 - Human Development</a>	3	
<a href="#">PRNU 050 - First Year Nursing Seminar</a>	1	
<a href="#">PSYC 001 - General Psychology</a>	3	
Environmental Studies Elective <sup>1</sup>	3-4	
<a href="#">CHEM 026 - Outline of Organic &amp; Biochem</a>		4
<a href="#">PSYC 152 - Abnormal Psychology</a>		3
<a href="#">SOC 001 - Introduction to Sociology</a> <sup>2</sup>		3
Philosophy, Religion or Ethics Elective		3
General Elective		3
Physical Education Elective		1
<b>Total</b>	<b>17-18</b>	<b>17</b>
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<a href="#">ANPS 019 - Ugr Hum Anatomy &amp; Physiology</a>	4	
<a href="#">MMG 065 - Microbiology &amp; Pathogenesis</a>	4	
<a href="#">NFS 043 - Fundamentals of Nutrition</a>	3	
<a href="#">STAT 111 - Elements of Statistics</a> or <a href="#">STAT 141 - Basic Statistical Methods</a>	3	
General Elective	3	
<a href="#">ANPS 020 - Ugr Hum Anatomy &amp; Physiology</a>		4
<a href="#">PRNU 110 - Art &amp; Science of Nursing</a>		3
<a href="#">PRNU 111 - Research in Nursing</a>		3
<a href="#">PRNU 113 - Assess of Hlth:Indiv&amp;Fam/Comm</a>		4

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Physical Education Elective		1
Total	17	15
<b>JUNIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>NURS 120 - Pathophysiology</u>	3	
<u>PRNU 127 - Hlth Promotion Across Lifespan</u>	3	
<u>PRNU 128 - Nurs Implications Drug Therapy</u>	4	
<u>PRNU 129 - Fam Care/Chldbrg Women&amp;Newborn</u>	4	
<u>PRNU 130 - Prof Nursing&amp;HealthCare System</u>	2	
<u>PRNU 131 - Exp of Alterations in Health I</u>		3
<u>PRNU 132 - Caring for Child W/Alter Hlth or</u> <u>PRNU 235 - Care Indv w/Alt in Mental Hlth</u>		5
<u>PRNU 134 - Care Adult/Elders W/Alt Hlth</u>		6
General Elective		3
Total	16	17
<b>SENIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>PRNU 132 - Caring for Child W/Alter Hlth or</u> <u>PRNU 235 - Care Indv w/Alt in Mental Hlth</u>	5	
<u>PRNU 231 - Experience:Alteration:Hlth II</u>	3	
<u>PRNU 234 - Care Adlts/Elders w/Alt HlthII</u>	6	
General Elective	3	
<u>PRNU 240 - Contemp Iss&amp;Ldrshp Prof Nursng</u>		3
<u>PRNU 241 - Cmty/Public Health Nursing</u>		6
<u>PRNU 244 - Senior Practicum</u>		3
Total	17	12
TOTAL CREDITS: 128-129		

**Notes:**

1. Environmental Studies Electives: ENVS 001, ENVS 002, ENVS 007; ENSC 001, ENSC 130; NR 002, NR 107/NH 107.
2. Sociology Elective: SOC 001 or any sociology course under 100.
3. A three-credit course meeting the race relations and ethnicity guidelines must be taken prior to graduation.

**Affiliations**

- Colleges and Schools:College of Nursing and Health Sciences.
- Departments and Programs:Nursing Department.

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## Nursing (for Registered Nurses) (Bachelor of Science)

### Overview

The program for registered nurses has been designed in light of changes in the health care delivery system and to better serve the registered nurse returning to school.

In this program, the Bachelor of Science degree with a major in nursing is awarded upon completion of a minimum of 126 credit hours (124 if the student is over 25 years of age) in full or part-time study. The major components of the curriculum are: required non-nursing courses, elective courses, and major nursing courses. The curriculum plan may vary for each student depending on the type and number of credits transferred to UVM.

The focus of the baccalaureate program component is on health and health promotion for individuals, families, groups, and communities; and the factors that influence delivery of health care services.

The program is an RN-BS-MS accelerated program, with an option for students to "step out" after completion of the baccalaureate requirements with a B. S. degree. Separate application is required for the graduate program.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Curriculum

#### Baccalaureate Nursing Curriculum

- [PRNU 060 - Trans to Cntmp Prof Nursing](#) (2 credits)
- [PRNU 111 - Research in Nursing](#) (3 credits)

- Education
  - [PRNU 113 - Assess of Hlth:Indiv&Fam/Comm](#) (4 credits)
- Graduate College
  - [PRNU 241 - Cmty/Public Health Nursing](#) (6 credits)
  - [PRNU 263 - Professional Nursing Practice](#) (4 credits)
- Honors College
  - Professional Nursing or NURS Electives (6-7 credits)
  - [GRNU 310 - Theoretical Foundation:Nursing](#) (3 credits)
- School of Business Administration
  - [GRNU 315 - Pol, Org & Fin Health Care](#) (3 credits)

- The Rubenstein School of Environment and Natural Resources

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Policies and General Information

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### Baccalaureate Non-nursing Curriculum

- [ENVS 001](#), [ENVS 002](#), [ENVS 007](#) or [NR 107/NH 107](#) (3-4 credits)
- [STAT 111 - Elements of Statistics](#) or [STAT 141 - Basic Statistical Methods](#) (3 credits)
- [HDFS 005 - Human Development](#) (3 credits)
- English Elective (3 credits)
- General Education Electives (18-19 credits)
- Philosophy, Religion or Ethics Elective (3 credits)
- Physical Education Elective (2 credits)
- Psychology Elective (3 credits)
- Quantitative Sciences Electives (19 credits)
- Sociology Elective (3 credits)
- At least one three credit course meeting the race relations and ethnicity guidelines must be taken prior to graduation.

### Affiliations

- Colleges and Schools:[College of Nursing and Health Sciences](#).
- Departments and Programs:[Nursing Department](#).

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## Radiation Therapy (Bachelor of Science)

### Overview

Radiation Therapy is the medical specialty that uses high energy radiations (x-rays, gamma rays, electron beams, etc.) in the treatment of disease. Radiation therapists are responsible for daily treatments, providing support for patients as they cope with their disease, and contributing as vital members of the medical team responsible for the patient's treatment plan.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Medical Laboratory and Radiation Sciences Requirements](#)

### Specific Requirements

Clinical education takes place at one of our clinical affiliations. The initial experience is obtained at the Fletcher Allen Health Care (FAHC). At least one experience will be an affiliation outside Burlington which will require additional room, meals, and transportation expenses.

### Clinical Affiliations

- Dartmouth-Hitchcock Medical Center, Hanover, NH
- Elliot Hospital, Manchester, NH
- Fletcher Allen Health Care, Burlington, VT
- Massachusetts General Hospital, Boston, MA

**Note:** The above list of clinical affiliations is subject to change.

Education

Students who already have the Associate in Science degree in Radiation Therapy may apply for transfer into the baccalaureate program.

• Graduate College

• Honors College

• School of Business  
Administration• The Rubenstein  
School of  
Environment and  
Natural ResourcesPolicies and General  
InformationFaculty and  
Administration

Catalogue Archives

## Curriculum

<b>FIRST-YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 001 - First Year Seminar</u>	1	
<u>MLRS 003 - Medical Terminology</u>	2	
<u>EDSS 011 - Race and Culture</u>	1	
ENGS	3	
<u>MATH 010</u> or <u>MATH 019</u>	3	
Physical Education Electives	1	1
<u>CHEM 023 - Outline of General Chemistry</u> or <u>CHEM 031/CHEM 032 - Introductory Chemistry</u>	4	(4)
Electives		5-9
<u>MLRS 034 - Human Blood Cell Biology</u>		3
<u>PSYC 001 - General Psychology</u>		3
Total	15	16
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 140 - Radiation Sciences</u>	3	
<u>NFS 043 Fund. of Nutrition</u>	3	
<u>STAT 111 Elements of Statistics</u> or <u>STAT 141 Basic Statistical Methods</u>	3	
Electives	3	3
<u>MPBP 019/MPBP 020 - UG Human Anatomy &amp; Physiology</u>	4	4
<u>RADT 152 - Principles Radiation Therapy</u>		3
<u>RADT 175 - Medical Imaging</u>		3
Sociology Elective		3
Total	16	16
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 295 - Prin of Education &amp; Management</u>	3	
<u>RADT 173 - Clinical Lab:Radiation Therapy</u>	3	
<u>PATH 101 - Intro to Human Disease</u>	3	
<u>PHYS 011 - Elementary Physics</u> or <u>PHYS 031 - Introductory Physics</u>	4	
Electives	3	3

<u>MLRS 120 - Health Care Ethics</u>		3
<u>PHYS 012 - Elementary Physics or</u> <u>PHYS 042 - Electromagnetism &amp; Modern Phys</u>		4
<u>RADT 144 - Seminar:Patient Care Issues</u>		1
<u>RADT 174 - Clinical Practicum</u>		2
<u>RADT 176 - Clinical Radiation Oncology</u>		3
Total	16	16
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>BMT 289 - Research Writing and Design</u>	3	
<u>RADT 223 - Clin Pract: Radiation Therapy</u>	3	
<u>RADT 275 - Dosimetry</u>	3	
<u>RADT 277 - Techniques Radiation Therapy</u>	4	
Electives	3	
<u>RADT 274 - Clin Intern:Radiation Therapy</u>		14
<u>RADT 280 - Qual Assurance&amp;Treatment Plan</u>		3
Total	16	17

**Total Credits: 128**

### **Affiliations**

- Colleges and Schools:College of Nursing and Health Sciences.
- Departments and Programs:Medical Laboratory and Radiation Sciences Department.

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## Medical Laboratory and Radiation Sciences Department

### Contact Information

*University of Vermont  
 Medical Laboratory and Radiation  
 Sciences Department  
 302 Rowell Building  
 106 Carrigan Drive  
 University of Vermont  
 Burlington, VT 05405*

Phone: (802) 656-3811

Fax: (802) 656-2191

Email: [mrls@uvm.edu](mailto:mrls@uvm.edu)

[Web Site](#)

### Affiliations

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## Medical Laboratory Science (Bachelor of Science)

### Overview

This four-year curriculum leading to the baccalaureate degree is accredited by the [National Accrediting Agency for Clinical Laboratory Sciences](#) .

The clinical laboratory scientist is involved in the development, performance, and evaluation of laboratory tests that lead to assessment of health status, diagnosis of disease, and monitoring of therapeutic treatment. The clinical laboratory experience is obtained at Fletcher Allen Health Care  Vermont's Academic Medical Center (FAHC)  and the Vermont State Health Department Laboratories.

On completion of the baccalaureate program, graduates are eligible for national certification.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Medical Laboratory and Radiation Sciences Requirements](#)

### Specific Requirements

Upon consultation with an advisor, students may follow an individualized curriculum that can lead to certification in one of the clinical laboratory specialties (Microbiology, Chemistry, Hematology, or Immunology).

### Curriculum

FIRST-YEAR	
	<b>Credits</b>

Education	Course	Fall	Spring
• Graduate College	<u>MLRS 001 - First Year Seminar</u>	1	
	<u>MLRS 003 - Medical Terminology</u>	2	
• Honors College	<u>CHEM 031 - Introductory Chemistry</u>	4	
• School of Business Administration	<u>EDSS 011 - Race and Culture</u> (or other)	1	
	ENGS	3	
	<u>MATH 010 - Pre-Calculus Mathematics</u> or <u>MATH 019 - Fundamentals of Calculus I</u> (or higher)	3	
• The Rubenstein School of Environment and Natural Resources	Electives	3	6
	Physical Education Electives		1
	<u>MLRS 034 - Human Blood Cell Biology</u>		3
	<u>CHEM 032 - Introductory Chemistry</u>		4
Policies and General Information	<u>STAT 111 - Elements of Statistics</u> or <u>STAT 141 - Basic Statistical Methods</u>		3
	Total	17	17
Faculty and Administration	<b>SOPHOMORE</b>		
Catalogue Archives	Course	Credits	
		Fall	Spring
	<u>MLRS 123 - Instrumental Analysis</u>	4	
	Physical Education Electives	1	
	<u>ANPS 019/ANPS 020 - Ugr Hum Anatomy &amp; Physiology</u>	4	4
	Electives	6	3
	<u>MLRS 054 - Principles of Microbiology</u>		4
	<u>CHEM 042 - Intro Organic Chemistry</u>		4
	Total	15	15
	<b>JUNIOR YEAR</b>		
	Course	Term	
		Fall	Spring
	<u>MLRS 281 - Applied Molecular Biology</u>	4	
	<u>MLRS 295- Education &amp; Management</u>	3	
	<u>PATH 101 - Intro to Human Disease</u>	3	
	Electives	6	3
	<u>MLS 231- Hematology</u>		3
	<u>BIOC 212 - Biochemistry of Human Disease</u>		3
	<u>MLRS 242/MLRS 244 - Immunology</u>		4
	<u>MLRS 120 - Health Care Ethics</u>		3
	Total	16	16
	<b>SENIOR YEAR</b>		
	Course	Term	
		Fall	Spring

<u>MLRS 110 - Phlebotomy I</u>	1	
Electives	3	
<u>MLS 255 - Advanced Clinical Microbiology</u>	4	
<u>MLS 262 - Advanced Immunohematology</u>	4	
<u>MLS 222 - Clinical Chemistry</u>	4	
<u>MLS 220 - Clinical Practicum: Chemistry</u> <u>MLS 230 - Clinical Practicum: Hematology</u> <u>MLS 250 - Clinical Practicum: Microbiology</u> <u>MLS 260 - Clinical Practicum: Immunohematology</u>		12
<u>MLRS 111 Phlebotomy II</u>		1
<u>MLS 292 - Topics in MLS</u>		3
Total	16	16
TOTAL CREDITS: 128		

### Affiliations

- Colleges and Schools: College of Nursing and Health Sciences.
- Departments and Programs: Medical Laboratory and Radiation Sciences Department.

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## Nuclear Medicine Technology (Bachelor of Science)

### Overview

This four-year curriculum leading to the baccalaureate degree is accredited by the [Joint Review Committee on Educational Programs in Nuclear Medicine Technology](#) .

Nuclear medicine technology is the medical specialty concerned with the use of small amounts of radioactive materials for diagnosis, therapy, and research. Nuclear medicine provides information about both the structure and function of virtually every major organ system.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Medical Laboratory and Radiation Sciences Requirements](#)

### Specific Requirements

Clinical education takes place at our clinical affiliations. The initial experience is obtained at the Fletcher Allen Health Care (FAHC). The internship will be at an affiliation outside Burlington which will require additional room, meals and transportation expenses.

Students who already have the Associate in Science degree in Nuclear Medicine Technology are encouraged to apply for transfer into the baccalaureate program.

### Clinical Affiliations

- Dartmouth-Hitchcock Medical Center, Hanover, NH
- Fletcher Allen Health Care, Burlington, VT
- Maine Medical Center, Portland, ME

- Education
- Massachusetts General Hospital, Boston, MA
  - Graduate College
  - Honors College

**Note:** The above list of clinical affiliations is subject to change.

- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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## Curriculum

<b>FIRST-YEAR</b>		
Course	Credits	
	Fall	Spring
<u>MLRS 001 - First Year Seminar</u>	1	
<u>MLRS 003 - Medical Terminology</u>	2	
<u>CHEM 023 - Outline of General Chemistry</u>	4	
<u>EDSS 011 - Race and Culture</u>	1	
ENGS	3	
<u>MATH 010 - Pre-Calculus Mathematics</u> (or <u>MATH 019</u> )	3	
Physical Education Electives	1	1
Electives		6
<u>MLRS 034 - Human Blood Cells</u>		3
<u>CHEM 026 - Outline of Organic &amp; Biochem</u> or <u>CHEM 042 - Intro Organic Chemistry</u>		4
<u>PSYC 001 - General Psychology</u>		3
Total	15	17
<b>SOPHOMORE</b>		
Course	Term	
	Fall	Spring
<u>MLRS 140 - Intro Radiologic Science</u>	3	
<u>STAT 111 Elements of Statistics</u> or <u>STAT 141 Basic Statistical Methods</u>	3	
<u>MPBP 019/MPBP 020 UG Human Anatomy &amp; Physiology</u>	4	4
Electives	6	6
<u>NMT 151 - Principals of Nuclear Med Tech</u>		3
<u>NMT 175 - Medical Imaging</u>		3
Total	16	16
<b>JUNIOR YEAR</b>		
Course	Term	
	Fall	Spring
<u>MLRS 120 - Health Care Ethics</u>	3	
<u>MLRS 110 - Phlebotomy I</u>	1	
<u>MLRS 295 - Prin Ed &amp; Management</u>	3	
<u>NMT 152- Radiopharmaceuticals</u>	3	
<u>NMT 163 - Nuclear Med Clin Practicum I</u>	1	

<u>PATH 101 - Intro to Human Disease</u>	3	
Electives	3	3
<u>MLRS 111 - Phlebotomy II</u>		1
<u>MLRS 242 - Immunology</u>		3
<u>NMT 153 - Nuclear Med Clin Procedures I</u>		3
<u>NMT 155 - Instrumentation I</u>		3
<u>NMT 164 - Nuclear Med Clin Practicum II</u>		2
Total	17	15
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 289 - Research Writing and Design</u>	3	
<u>NMT 154 - Nuclear Med Clin Procedures II</u>	3	
<u>NMT 156 - Instrumentation II</u>	3	
<u>NMT 263 - Adv Nuclear Med Clin Pract III</u>	3	
Electives	3	
<u>NMT 264 - Nuclear Medicine Internship</u>		17
Total	15	17

**Total Credits: 128**

### **Affiliations**

- Colleges and Schools:College of Nursing and Health Sciences.
- Departments and Programs:Medical Laboratory and Radiation Sciences Department.

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Colleges and Schools > College of Nursing and Health Sciences > Departments and Programs > Medical Laboratory and Radiation Sciences Department > Academic Offerings > Radiation Therapy (B.S.)

## Radiation Therapy (Bachelor of Science)

### Overview

Radiation Therapy is the medical specialty that uses high energy radiations (x-rays, gamma rays, electron beams, etc.) in the treatment of disease. Radiation therapists are responsible for daily treatments, providing support for patients as they cope with their disease, and contributing as vital members of the medical team responsible for the patient's treatment plan.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)
- [Medical Laboratory and Radiation Sciences Requirements](#)

### Specific Requirements

Clinical education takes place at one of our clinical affiliations. The initial experience is obtained at the Fletcher Allen Health Care (FAHC). At least one experience will be an affiliation outside Burlington which will require additional room, meals, and transportation expenses.

### Clinical Affiliations

- Dartmouth-Hitchcock Medical Center, Hanover, NH
- Elliot Hospital, Manchester, NH
- Fletcher Allen Health Care, Burlington, VT
- Massachusetts General Hospital, Boston, MA

**Note:** The above list of clinical affiliations is subject to change.



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• Honors College

• School of Business  
Administration• The Rubenstein  
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Natural ResourcesPolicies and General  
InformationFaculty and  
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Students who already have the Associate in Science degree in Radiation Therapy may apply for transfer into the baccalaureate program.

## Curriculum

<b>FIRST-YEAR</b>		
<b>Course</b>	<b>Credits</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 001 - First Year Seminar</u>	1	
<u>MLRS 003 - Medical Terminology</u>	2	
<u>EDSS 011 - Race and Culture</u>	1	
ENGS	3	
<u>MATH 010</u> or <u>MATH 019</u>	3	
Physical Education Electives	1	1
<u>CHEM 023 - Outline of General Chemistry</u> or <u>CHEM 031/CHEM 032 - Introductory Chemistry</u>	4	(4)
Electives		5-9
<u>MLRS 034 - Human Blood Cell Biology</u>		3
<u>PSYC 001 - General Psychology</u>		3
Total	15	16
<b>SOPHOMORE</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 140 - Radiation Sciences</u>	3	
<u>NFS 043 Fund. of Nutrition</u>	3	
<u>STAT 111 Elements of Statistics</u> or <u>STAT 141 Basic Statistical Methods</u>	3	
Electives	3	3
<u>MPBP 019/MPBP 020 - UG Human Anatomy &amp; Physiology</u>	4	4
<u>RADT 152 - Principles Radiation Therapy</u>		3
<u>RADT 175 - Medical Imaging</u>		3
Sociology Elective		3
Total	16	16
<b>JUNIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>MLRS 295 - Prin of Education &amp; Management</u>	3	
<u>RADT 173 - Clinical Lab: Radiation Therapy</u>	3	
<u>PATH 101 - Intro to Human Disease</u>	3	
<u>PHYS 011 - Elementary Physics</u> or <u>PHYS 031 - Introductory Physics</u>	4	
Electives	3	3

<a href="#">MLRS 120 - Health Care Ethics</a>		3
<a href="#">PHYS 012 - Elementary Physics</a> or <a href="#">PHYS 042 - Electromagnetism &amp; Modern Phys</a>		4
<a href="#">RADT 144 - Seminar:Patient Care Issues</a>		1
<a href="#">RADT 174 - Clinical Practicum</a>		2
<a href="#">RADT 176 - Clinical Radiation Oncology</a>		3
Total	16	16
<b>SENIOR YEAR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<a href="#">BMT 289 - Research Writing and Design</a>	3	
<a href="#">RADT 223 - Clin Pract: Radiation Therapy</a>	3	
<a href="#">RADT 275 - Dosimetry</a>	3	
<a href="#">RADT 277 - Techniques Radiation Therapy</a>	4	
Electives	3	
<a href="#">RADT 274 - Clin Intern:Radiation Therapy</a>		14
<a href="#">RADT 280 - Qual Assurance&amp;Treatment Plan</a>		3
Total	16	17

**Total Credits:** 128

### Affiliations

- Colleges and Schools:[College of Nursing and Health Sciences](#).
- Departments and Programs:[Medical Laboratory and Radiation Sciences Department](#).

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## Medical Laboratory and Radiation Sciences Requirements

Programs in the Department of Medical Laboratory and Radiation Sciences lead to Bachelor of Science degrees in Medical Laboratory Science, Nuclear Medicine Technology, and Radiation Therapy. A core curriculum of approximately 40 credit hours serves students in all three programs. A cross-college minor in Molecular Diagnostics is available within the department. The courses of study for each undergraduate degree program are described below.

Graduates of all three programs are prepared for immediate employment, as well as to pursue post-baccalaureate education in the life sciences or professional education in medicine. Courses in the humanities and basic sciences are taken in the department and throughout the University, including the College of Medicine.

Requirements for admission are the same as the general University requirements, with the addition that applicants must have taken high school biology, mathematics through trigonometry, and chemistry; physics is highly recommended.

A minimum of 128 semester credit hours including two credit hours of physical education, an overall grade-point average of 2.0, and a 2.0 GPA in professional courses are required for the bachelor of science degree in all three areas of study.

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## Medical Laboratory and Radiation Sciences Department Honors Program

An undergraduate student of at least junior standing whose minimum grade-point average is 3.5 is eligible for invitation by the faculty to participate in the departmental honors program. Students who accept the invitation will be required to complete one of the following options: (1) participation in at least two senior level specialty seminars with completion of an independent reading thesis; (2) completion of an independent research project. Excellent and committed work will be required for a student to be granted Departmental Honors.

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Colleges and Schools > College of Nursing and Health Sciences > Departments and Programs > Medical Laboratory and Radiation Sciences Department > Courses

## Courses offered by the Medical Laboratory and Radiation Sciences Department

### Courses in Medical Lab & Radiation Sci

#### MLRS 001 - First Year Seminar

Discussion of relevant issues in the Biomedical Sciences. Topics include public health, cancer prevention, radiation science, and health and well-being. S/U grading.

Credits: 1.

#### MLRS 003 - Medical Terminology

Terminology related to medical science and hospital services

Credits: 2.

#### MLRS 034 - Human Blood Cell Biology

Lecture and laboratory experiences in cells of the blood, their quantitation, physiology, and alterations in disease.

Credits: 3.

#### MLRS 054 - Principles of Microbiology

Lectures and laboratory experiences dealing with the structure, physiology, and control of microorganisms, in particular those of medical importance.

Credits: 4.

#### MLRS 095 - Special Topics

Credits: 0-12.

#### MLRS 096 - Special Topics

Credits: 0-12.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**MLRS 110 - Phlebotomy I**

Basic techniques in blood collection, including choice of anticoagulants, equipment, sterility, and protection from blood-borne pathogens.

Credits: 1.

**MLRS 111 - Phlebotomy II**

Advanced techniques in blood collection, including choice of anticoagulants, equipment, sterility, and protection from blood-borne pathogens. Pre/co-requisites: MLRS 110.

Credits: 1.

**MLRS 120 - Health Care Ethics**

A study of ethical principles and applications used to help resolve dilemmas in health care delivery. Introduction to ethical decision-making models used in the practice of modern health care.

Credits: 3.

**MLRS 123 - Instrumental Analysis**

Lectures and laboratory experiences introduce basic principles in the quantitative analysis; test results are correlated with clinical case studies. Pre/co-requisite: CHEM 023, or CHEM 031 and CHEM 032.

Credits: 4.

**MLRS 140 - Radiation Science**

Introduction to ionizing radiation, emphasizing its interaction with matter, its effect on the human body, and methods of protecting patients and technologists. Pre/co-requisites: MATH 10 or 19.

Credits: 3.

**MLRS 195 - Special Topics**

Credits: 0-18.

**MLRS 196 - Special Topics**

Credits: 0-18.

**MLRS 242 - Immunology**

Lecture dealing with cellular and humoral immunity, B cells and T cells, autoimmunity, immunodeficiency. Pre/co-requisites: One Semester of Biochemistry.

Credits: 3.

**MLRS 244 - Immunology Lab**

Laboratory experience dealing with cellular and humoral immunity, B cells and T cells, autoimmunity, immunodeficiency. Laboratory covers immunological techniques and applications. Pre/co-requisites: One Semester Biochemistry.

Credits: 1.

**MLRS 281 - Applied Molecular Biology**

Lecture and laboratory course focused on application of molecular biology

techniques to diagnostic testing and biotechnology. Pre/co-requisites: CHEM 42 or 141.

Credits: 4.

**MLRS 289 - Research Writing & Design**

Creating written research papers on selected topics and presenting the results to the class in a seminar format.

Credits: 3.

**MLRS 291 - Honors:Med Lab & Radiation Sci**

Contact the Department for specific requirements.

Credits: 3.

**MLRS 292 - Honors:Med Lab & Radiation Sci**

Contact the Department for specific requirements.

Credits: 3.

**MLRS 295 - Prin of Education & Management**

Introduction to theories of education and management. Pre/co-requisites: 3rd Year Standing.

Credits: 3.

**MLRS 299 - Special Topics**

Courses or seminars beyond scope of existing departmental offerings.

Prerequisite: Department permission.

Credits: 1-18.

**MLRS 381 - Special Topics Seminar**

Pre/co-requisite: Instructor Permission.

Credits: 1.

**MLRS 391 - Masters Thesis Research**

Pre/co-requisite: Instructor Permission.

Credits: 1-6.

**MLRS 395 - Advanced Topics**

Pre/co-requisite: Instructor Permission.

Credits: 1-3.

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## Courses in Biomedical Technology

**BMED 282 - Research Methods**

Laboratory focused course covering methods of eukaryotic cell culture, viability studies, and protein isolation and analysis.

Credits: 4.

**BMED 287 - Research I**

Independent research project - Fall semester.

Credits: 3.

**BMED 288 - Research II**

Independent research project - Spring semester.

Credits: 3.

**BMED 293 - Research Concepts**

Discussion of research methodology including analysis of primary scientific literature. Spring.

Credits: 1.

**BMED 297 - Undergraduate Research**

Research projects sponsored by faculty. Prerequisite: Instructor permission. Spring, Fall.

Credits: 1-6.

**BMED 298 - Undergraduate Research Seminar**

Current literature related to student research project will be presented and discussed. Students will be required to present a seminar on their research project. Prerequisite: BMED 284, BMED 285, BMED 286 or BMED 297; advanced standing. Spring.

Credits: 3.

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## Courses in Medical Laboratory Science

**MLS 095 - Special Topics**

Credits: 1-6.

**MLS 096 - Special Topics**

Credits: 1-6.

**MLS 195 - Special Topics**

Credits: 1-18.

**MLS 196 - Special Topics**

Credits: 1-18.

**MLS 220 - Clinical Practicum: Chemistry**

Experiences with chromatography, immunoassays, random access analyses, and a variety of manual and automated test systems. MLS majors only. Fall, spring.

Credits: 3.5.

**MLS 222 - Clinical Chemistry**

Two-part course detailing testing techniques including chromatography, electrophoresis, nephelometry, electrochemistry, and automation; clinical case studies on the pathophysiology of diseases when abnormal chemistry test results are present. Lab focuses on troubleshooting and problem solving. Prerequisite: BOC 212 Spring.



Credits: 4.

**MLS 230 - Clinical Practicum: Hematology**

Experiences in clinical analysis of blood cells in the FAHC laboratories. MLS majors only. Fall, spring.

Credits: 2.

**MLS 231 - Hematology**

Advanced theory and analysis of blood cell physiology and related pathology. Concepts of hemostasis and clinical assessment methods. Fall.

Credits: 3.

**MLS 250 - Clin Practicum: Microbiology**

Practical experiences at Fletcher Allen Health Care. MLS majors only. Fall, spring.

Credits: 2.

**MLS 255 - Clinical Microbiology**

Advanced instruction in the study of clinically significant microorganisms, infectious disease process, and laboratory methods used for isolation and identification of microorganisms from clinical specimens. Fall. Prerequisite: One semester of microbiology.

Credits: 4.

**MLS 260 - Clin Pract:Immuno-hematology**

Clinical experiences in operation of a hospital transfusion service and regional reference laboratory. MLS majors only. Fall, spring.

Credits: 1.5.

**MLS 262 - Advanced Immuno-hematology**

Immunology Advanced theory and experience related to human blood groups and transfusion practice. Prerequisites:

Credits: 4.

**MLS 292 - Topics in Medical Lab Science**

Seminar on advanced topics in the practice of Medical Laboratory Science.

Credits: 3.

**MLS 295 - Special Topics**

Credits: 1-18.

**MLS 296 - Special Topics**

Credits: 1-18.

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## Courses in Nuclear Medicine Technology

**NMT 151 - Prin of Nuclear Medicine**

Lecture and laboratory experiences to introduce the theories and practice of nuclear medicine technology. Pre/co-requisites: MLRS 140.

Credits: 3.

**NMT 152 - Radiopharmaceuticals**

The radiopharmacological aspects of nuclear medicine technology, including radiation physics, safety, tracer principles, and dosimetry. Pre/co-requisites: NMT 151.

Credits: 3.

**NMT 153 - Nuclear Med Clin Procedures I**

Procedures I Principles of diagnostic imaging procedures emphasizing the nuclear medicine technologist's role in patient care and preparation, radiopharmaceutical selection, image acquisition, and data processing and analysis. Prerequisite: NMT 152.

Credits: 3.

**NMT 154 - Nuclear Med Clin Procedures II**

Procedures II Principles and technical considerations of in vivo and in vitro nuclear medicine diagnostic and therapeutic procedures. Prerequisite: NMT 153.

Credits: 3.

**NMT 155 - Instrumentation I**

Nuclear medicine instrumentation, with emphasis on planar imaging devices, computer, and quality control; introduction to SPECT camera systems.

Prerequisite: NMT 152.

Credits: 3.

**NMT 156 - Instrumentation II**

Advanced nuclear medicine instrumentation with emphasis on state-of-the-art imaging devices. Prerequisite: NMT 155.

Credits: 3.

**NMT 163 - Nuclear Med Clin Practicum I**

Students observe and participate in Fletcher Allen Health Care's Nuclear Medicine Department. NMT majors only.

Credits: 1.

**NMT 164 - Nuclear Med Clin Practicum II**

Students participate in routine imaging procedures emphasizing patient care, positioning, and instrumentation. NMT majors only. Prerequisite: NMT 163.

Credits: 2.

**NMT 175 - Medical Imaging**

Introduction to the radiographic anatomy and the various imaging modalities presently used to include diagnostic imaging, computed tomography (CT), magnetic resonance imaging (MRI), and nuclear medicine. Pre/co-requisites: ANPS 19, concurrent with ANPS 20, MLRS 140. Cross-listed with RADT 175.

Credits: 3.

**NMT 263 - Adv Nuclear Med Clin Pract III**

Experience in advanced clinical and pharmacological procedures. NMT majors only. Prerequisite: NMT 164.

Credits: 3.

**NMT 264 - Clinical Internship**

Full-time clinical experience at an affiliated institution. NMT majors only.

Prerequisite: NMT 263.

Credits: 17.

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## Courses in Radiation Therapy

**RADT 144 - Seminar:Patient Care Issues**

S/U grading.

Credits: 1.

**RADT 152 - Prin of Radiation Therapy**

Introduction to the practice and theory of radiation therapy through lectures and discussions. Pre/co-requisites: MLRS 140.

Credits: 3.

**RADT 173 - Intro to Clinical Practice**

Introduction to the clinical environment through activities which include patient care issues, treatment unit operations and manipulations and direct patient case. Includes a clinical practicum. Pre-requisite: RADT 152.

Credits: 3.

**RADT 174 - Clinical Practicum**

Students participate and observe in the Fletcher Allen Health Care Radiation Therapy Department. RADT majors only. Prerequisite: RADT 173. Spring.

Credits: 2.

**RADT 175 - Medical Imaging**

Introduction to the radiographic anatomy and the various imaging modalities presently used to include diagnostic imaging, computed tomography (CT), magnetic resonance imaging (MRI), and nuclear medicine. Pre/co-requisites: ANPS 19, concurrent with ANPS 20, BMT 4. Cross-listed with NMT 175.

Credits: 3.

**RADT 176 - Clinical Radiation Oncology**

The various types of neoplasms, methods of diagnosis of treatment, and elementary pathology are presented. RADT majors only. Prerequisites: Anatomy and Physiology 19-20, concurrent enrollment in RADT 174. Spring.

Credits: 3.

**RADT 223 - Clin Pract: Radiation Therapy**

A continuation of RADT 174 emphasizing increasing clinical capabilities. RADT majors only. Prerequisite: 174. Fall.

Credits: 3.

### **RADT 274 - Clin Intern:Radiation Therapy**

Students are assigned to approved clinical education sites to observe and increase their participation in the clinical environment. Evaluations based on defined clinical objectives and competencies to be completed by the clinical and University faculty. RADT majors only. Prerequisite: Successful completion of all previous required major courses and concurrent enrollment in RADT 280. Spring. Credits: 14.

### **RADT 275 - Dosimetry**

Treatment plan verification using three-dimensional computer models, simulation data, and knowledge of treatment unit capabilities. RADT majors only. Prerequisites: RADT Senior Standing. Credits: 3.

### **RADT 277 - Techniques Radiation Therapy**

Instructs students in the theory and clinical application of radiotherapeutic techniques. RADT majors only. Prerequisites: Concurrent enrollment in 275 and 223. Fall. Credits: 4.

### **RADT 280 - Qual Assurance&Treatment Plan**

The integration of clinical oncology, radiobiology, dosimetry, and treatment planning, and how they affect patient outcomes. RADT majors only. Spring. Credits: 3.

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## Faculty for Medical Laboratory and Radiation Sciences Department

Jane P. Alsofrom

Clinical Assistant Professor of Medical Laboratory and Radiation Sciences

Director of the Radiation Therapy Program

Appointed in [2003](#)

[Medical Laboratory and Radiation Sciences Department](#)

AS 1977 [University of Vermont](#)

BA 2000 [Trinity College](#)

MED 2006 [University of Vermont](#)

[Search Courses for Jane Alsofrom](#)

Lori H. Birch

Clinical Instructor of Medical Laboratory and Radiation Sciences

Appointed in [1993](#)

[Medical Laboratory and Radiation Sciences Department](#)

AS 1979 [University of Vermont](#)

[Search Courses for Lori Birch](#)

Maryse C. Biron

Lecturer I of Medical Laboratory and Radiation Sciences

Appointed in [1992](#)

[Medical Laboratory and Radiation Sciences Department](#)

AS 1983 [University of Vermont](#)

MED 2004 [Saint Michaels College](#)

[Search Courses for Maryse Biron](#)

Education

---

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Steven R. Blumen  
Assistant Professor of Medical Laboratory and Radiation Sciences  
Appointed in [2000](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BS 1987 [University of Vermont](#)  
BS 1997 [University of Vermont](#)  
MS 1998 [University of Vermont](#)  
PHD 2006 [University of Vermont](#)  
[Search Courses for Steven Blumen](#)

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Sarah E. Bonnett  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [2002](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BS 2001 [University of Vermont](#)  
[Search Courses for Sarah Bonnett](#)

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Kathy Ann Bruce  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1981](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
MBA 2001 [Suffolk University](#)  
[Search Courses for Kathy Bruce](#)

---

Sharon Bushor  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1996](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BS 1968 [University of Vermont](#)  
[Search Courses for Sharon Bushor](#)

---

Muhammad Ahmad Chaudhry  
Associate Professor of Medical Laboratory and Radiation Sciences  
Appointed in [2004](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BSC 1982 [University of Punjab](#)  
MSC 1985 [University of Punjab](#)  
MSC 1988 [University of Manchester](#)  
PHD 1990 [University of Manchester](#)  
[Search Courses for Muhammad Chaudhry](#)

---

Lisa Marie Deavitt  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1993](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1991 [University of Vermont](#)  
[Search Courses for Lisa Deavitt](#)

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Thomas Defranco  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1998](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BS 1974 [Jacksonville University](#)  
BS 1982 [Medical University of South Carolina](#)  
[Search Courses for Thomas Defranco](#)

---

Frances Anne Delwiche  
Associate Professor of Medical Laboratory and Radiation Sciences  
Library Associate Professor of Dana Medical Library  
Appointed in [2000](#)  
[Dana Medical Library](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1974 [Madison Area Technical College](#)  
BS 1979 [University of Wisconsin Oshkosh](#)  
MLIS 1997 [University of Wisconsin Milwaukee](#)  
[Search Courses for Frances Delwiche](#)

---

Kathleen Mary Elgert  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1993](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1982 [University of Vermont](#)  
BS 1990 [University of Vermont](#)  
[Search Courses for Kathleen Elgert](#)

---

Eunice H. Froeliger  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Research Assistant Professor of Microbiology and Molecular Genetics  
Appointed in [1988](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
[Microbiology and Molecular Genetics Department](#)  
BS 1971 [University of Connecticut](#)  
MED 1977 [University of Vermont](#)  
PHD 1988 [University of Vermont](#)

[Search Courses for Eunice Froeliger](#)

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David P. Gervais  
Lecturer I of Medical Laboratory and Radiation Sciences  
Appointed in [1999](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BS 1998 [University of Vermont](#)

[Search Courses for David Gervais](#)

---

Christine G. Griffin  
Senior Lecturer of Medical Laboratory and Radiation Sciences  
Appointed in [1988](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1975 [University of Vermont](#)  
BS 1977 [University of Vermont](#)  
MS 1988 [University of Vermont](#)

[Search Courses for Christine Griffin](#)

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Suzanne Pamela Gross  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [2002](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BS 2001 [University of Vermont](#)

[Search Courses for Suzanne Gross](#)

---

Paulette Boyer Hammond  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1984](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BS 1974 [Juniata College](#)

[Search Courses for Paulette Hammond](#)

---

Daphne H. Hard  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1993](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1982 [University of Vermont](#)  
AS 1983 [University of Vermont](#)

[Search Courses for Daphne Hard](#)

---

Patricia A. Harvey  
Clinical Instructor of Medical Laboratory and Radiation Sciences



Appointed in [1998](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
[Search Courses for Patricia Harvey](#)

---

Heather L. Heitkamp  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [2002](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1994 [Rochester Community and Technical College](#)  
[Search Courses for Heather Heitkamp](#)

---

Heather L. Kelley  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1994](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1993 [University of Vermont](#)  
[Search Courses for Heather Kelley](#)

---

Thomas Lee Kellogg  
Lecturer of Medical Laboratory and Radiation Sciences  
Appointed in [1985](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1982 [University of Vermont](#)  
BS 1988 [University of Vermont](#)  
[Search Courses for Thomas Kellogg](#)

---

Janusz K. Kikut  
Assistant Professor of Medical Laboratory and Radiation Science  
Associate Professor of Radiology  
Appointed in [2001](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
[Radiology Department](#)  
MD 1992 [Warsaw Medical Academy](#)  
[Search Courses for Janusz Kikut](#)

---

Richard R. Lew  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1993](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1976 [University of Vermont](#)  
[Search Courses for Richard Lew](#)

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Marleen M. Moore  
Associate Professor of Radiology  
Lecturer I of Medical Laboratory and Radiation Sciences  
Appointed in 1989  
Medical Laboratory and Radiation Sciences Department  
Radiology Department  
BA 1971 University of New Hampshire  
MS 1979 University of Colorado Boulder  
Search Courses for Marleen Moore

---

Patricia B. Morley  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in 1994  
Medical Laboratory and Radiation Sciences Department  
AS 1976 University of Vermont  
Search Courses for Patricia Morley

---

Charles Otto Powden  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in 1981  
Medical Laboratory and Radiation Sciences Department  
AS 1974 University of Vermont  
BS 1976 University of Vermont  
BS 1976 University of Vermont  
Search Courses for Charles Powden

---

Maria E. Ramos-Nino  
Lecturer of Medical Laboratory and Radiation Science  
Research Assistant Professor of Pathology  
Appointed in 2001  
Medical Laboratory and Radiation Sciences Department  
Pathology - General, College of Medicine  
BS 1982 University of Massachusetts Boston  
ENG 1988 University of Simon Rodrigues  
MBA 1992 University of Del Tachira  
PHD 1996 University of Surrey  
Search Courses for Maria Ramos-Nino

---

Debra R. Reardon  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Lecturer of Medical Laboratory and Radiation Sciences  
Appointed in 1990  
Medical Laboratory and Radiation Sciences Department

AS 1979 [University of Vermont](#)

BS 1981 [University of Vermont](#)

[Search Courses for Debra Reardon](#)

---

Mark Dennis Reid

Clinical Instructor of Medical Laboratory and Radiation Sciences

Appointed in [1993](#)

[Medical Laboratory and Radiation Sciences Department](#)

BSRT 1982 [Wayne State University](#)

[Search Courses for Mark Reid](#)

---

Stephen A. Relation

Clinical Instructor of Medical Laboratory and Radiation Sciences

Appointed in [1993](#)

[Medical Laboratory and Radiation Sciences Department](#)

[Search Courses for Stephen Relation](#)

---

Thomas Arthur Roland

Professor of Medical Laboratory and Radiation Sciences

Professor of Radiology

Appointed in [1978](#)

[Medical Laboratory and Radiation Sciences Department](#)

[Radiology Department](#)

BS 1969 [Ohio University](#)

MD 1973 [University of Cincinnati](#)

[Search Courses for Thomas Roland](#)

---

Harriet E. St. Laurent

Clinical Instructor of Medical Laboratory and Radiation Sciences

Appointed in [1998](#)

[Medical Laboratory and Radiation Sciences Department](#)

AS 1973 [NULL](#)

[Search Courses for Harriet St. Laurent](#)

---

Monica Ann Sullivan

Clinical Instructor of Medical Laboratory and Radiation Sciences

Appointed in [1988](#)

[Medical Laboratory and Radiation Sciences Department](#)

BS 1978 [University of Vermont](#)

[Search Courses for Monica Sullivan](#)

---

Edward Benjamin Tumielewicz

Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1993](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1991 [University of Vermont](#)  
[Search Courses for Edward Tumielewicz](#)

---

Thomas Sholes Wadsworth  
Clinical Assistant Professor of Medical Laboratory and Radiation Sciences  
Lecturer of Medical Laboratory and Radiation Sciences  
Appointed in [1993](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
BA 1965 [Whittier College](#)  
MBA 1976 [Boston University](#)  
[Search Courses for Thomas Wadsworth](#)

---

Fred W. Westenfeld  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1990](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1981 [University of Vermont](#)  
BS 1983 [University of Vermont](#)  
[Search Courses for Fred Westenfeld](#)

---

Burton William Wilcke Jr.  
Associate Professor of Medical Laboratory and Radiation Sciences  
Associate Professor of Pathology  
Appointed in [1990](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
[Pathology Department](#)  
BA 1969 [Hartwick College](#)  
MS 1971 [Wagner College](#)  
PHD 1976 [Temple University](#)  
[Search Courses for Burton Wilcke Jr.](#)

---

Christin E. Young  
Clinical Instructor of Medical Laboratory and Radiation Sciences  
Appointed in [1999](#)  
[Medical Laboratory and Radiation Sciences Department](#)  
AS 1997 [University of Vermont](#)  
[Search Courses for Christin Young](#)

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- College of Education and Social Services
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## Nursing Department

### Contact Information

University of Vermont  
 Nursing Department  
 216 Rowell Building  
 106 Carrigan Drive  
 University of Vermont  
 Burlington, VT 05405

Phone: (802) 656-3830  
 Fax: (802) 656-8306  
 Email: [nursing@uvm.edu](mailto:nursing@uvm.edu)

[Web Site](#)

### Affiliations

- Colleges and Schools: [College of Nursing and Health Sciences](#).

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## Nursing Department: Academic Offerings

- [Nursing \(B.S.\)](#)
- [Nursing \(for Registered Nurses\) \(B.S.\)](#)



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## Nursing (Bachelor of Science)

### Overview

The Nursing department offers an undergraduate educational program to prepare qualified individuals for the practice of professional nursing and a graduate program for advanced nursing practice. The undergraduate program leads to the Bachelor of Science degree and is approved by the Vermont State Board of Nursing and the [National League for Nursing Accreditation Commission](#) ( 61 Broadway, 33rd floor, New York, NY 10006; 800-664-1656 Ext 153). Graduates of the nursing program are eligible to apply for registered nurse licensure. Students who matriculate in the College of Nursing and Health Sciences are required to complete a Criminal Record Check (CRC) as a prerequisite for placement in many schools and clinical agencies with whom we have affiliation agreements. Evidence of a Criminal Record may prevent students from being eligible for clinical placement, and/or professional licensure.

### General Requirements



- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

Applicants must meet the general admission requirements for the University. Financial Aid is available in the form of scholarships, loans, awards, and employment (see section on Financial Aid). A minimum of 128 approved semester hours is required for the Bachelor of Science degree. A grade of C is required in selected cognate nursing prerequisite courses (see Student Handbook for details). A grade of C or better is required in all nursing major courses. A minimum 2.0 overall grade-point average is required to progress to junior year and for graduation. Full-time and part-time plans of studies are available. Students are encouraged to purchase a personal computer.

- Education
- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Specifications for hardware and software requirements may be found at the division of [Computing and Information Technology's Web site](#) .

The curriculum, conducted in four academic years, provides balance in general and professional education. Courses in the sciences  biological, physical, social, and humanities  serve as a foundation for the nursing courses.

The required courses in the humanities and sciences complement the preparation for nursing as well as contribute to a well-rounded education. Graduates are eligible to apply for licensure as registered nurses and have the foundation for continued formal study in nursing at the master's and doctoral levels.

## Curriculum

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<b>FIRST-YEAR</b>		
Course	Credits	
	Fall	Spring
<a href="#">CHEM 023 - Outline of General Chemistry</a>	4	
<a href="#">ENG 001 - Written Expression</a>	3	
<a href="#">HDFS 005 - Human Development</a>	3	
<a href="#">PRNU 050 - First Year Nursing Seminar</a>	1	
<a href="#">PSYC 001 - General Psychology</a>	3	
Environmental Studies Elective <sup>1</sup>	3-4	
<a href="#">CHEM 026 - Outline of Organic &amp; Biochem</a>		4
<a href="#">PSYC 152 - Abnormal Psychology</a>		3
<a href="#">SOC 001 - Introduction to Sociology</a> <sup>2</sup>		3
Philosophy, Religion or Ethics Elective		3
General Elective		3
Physical Education Elective		1
Total	17-18	17
<b>SOPHOMORE</b>		
Course	Term	
	Fall	Spring
<a href="#">ANPS 019 - Ugr Hum Anatomy &amp; Physiology</a>	4	
<a href="#">MMG 065 - Microbiology &amp; Pathogenesis</a>	4	
<a href="#">NFS 043 - Fundamentals of Nutrition</a>	3	
<a href="#">STAT 111 - Elements of Statistics</a> or <a href="#">STAT 141 - Basic Statistical Methods</a>	3	
General Elective	3	
<a href="#">ANPS 020 - Ugr Hum Anatomy &amp; Physiology</a>		4
<a href="#">PRNU 110 - Art &amp; Science of Nursing</a>		3
<a href="#">PRNU 111 - Research in Nursing</a>		3
<a href="#">PRNU 113 - Assess of Hlth:Indiv&amp;Fam/Comm</a>		4



Physical Education Elective		1
Total	17	15
<b>JUNIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>NURS 120 - Pathophysiology</u>	3	
<u>PRNU 127 - Hlth Promotion Across Lifespan</u>	3	
<u>PRNU 128 - Nurs Implications Drug Therapy</u>	4	
<u>PRNU 129 - Fam Care/Chldbrg Women&amp;Newborn</u>	4	
<u>PRNU 130 - Prof Nursing&amp;HealthCare System</u>	2	
<u>PRNU 131 - Exp of Alterations in Health I</u>		3
<u>PRNU 132 - Caring for Child W/Alter Hlth or</u> <u>PRNU 235 - Care Indv w/Alt in Mental Hlth</u>		5
<u>PRNU 134 - Care Adult/Elders W/Alt Hlth</u>		6
General Elective		3
Total	16	17
<b>SENIOR</b>		
<b>Course</b>	<b>Term</b>	
	<b>Fall</b>	<b>Spring</b>
<u>PRNU 132 - Caring for Child W/Alter Hlth or</u> <u>PRNU 235 - Care Indv w/Alt in Mental Hlth</u>	5	
<u>PRNU 231 - Experience:Alteration:Hlth II</u>	3	
<u>PRNU 234 - Care Adlts/Elders w/Alt HlthII</u>	6	
General Elective	3	
<u>PRNU 240 - Contemp Iss&amp;Ldrshp Prof Nursng</u>		3
<u>PRNU 241 - Cmty/Public Health Nursing</u>		6
<u>PRNU 244 - Senior Practicum</u>		3
Total	17	12
TOTAL CREDITS: 128-129		

**Notes:**

1. Environmental Studies Electives: ENVS 001, ENVS 002, ENVS 007; ENSC 001, ENSC 130; NR 002, NR 107/NH 107.
2. Sociology Elective: SOC 001 or any sociology course under 100.
3. A three-credit course meeting the race relations and ethnicity guidelines must be taken prior to graduation.

**Affiliations**

- Colleges and Schools:College of Nursing and Health Sciences.
- Departments and Programs:Nursing Department.



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## Nursing (for Registered Nurses) (Bachelor of Science)

### Overview

The program for registered nurses has been designed in light of changes in the health care delivery system and to better serve the registered nurse returning to school.

In this program, the Bachelor of Science degree with a major in nursing is awarded upon completion of a minimum of 126 credit hours (124 if the student is over 25 years of age) in full or part-time study. The major components of the curriculum are: required non-nursing courses, elective courses, and major nursing courses. The curriculum plan may vary for each student depending on the type and number of credits transferred to UVM.

The focus of the baccalaureate program component is on health and health promotion for individuals, families, groups, and communities; and the factors that influence delivery of health care services.

The program is an RN-BS-MS accelerated program, with an option for students to "step out" after completion of the baccalaureate requirements with a B. S. degree. Separate application is required for the graduate program.

### General Requirements

- [College of Nursing and Health Sciences Undergraduate Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Curriculum

#### Baccalaureate Nursing Curriculum

- [PRNU 060 - Trans to Cntmp Prof Nursing](#) (2 credits)
- [PRNU 111 - Research in Nursing](#) (3 credits)

- Education
  - [PRNU 113 - Assess of Hlth:Indiv&Fam/Comm](#) (4 credits)
- Graduate College
  - [PRNU 241 - Cmty/Public Health Nursing](#) (6 credits)
  - [PRNU 263 - Professional Nursing Practice](#) (4 credits)
- Honors College
  - Professional Nursing or NURS Electives (6-7 credits)
  - [GRNU 310 - Theoretical Foundation:Nursing](#) (3 credits)
- School of Business Administration
  - [GRNU 315 - Pol, Org & Fin Health Care](#) (3 credits)

- The Rubenstein School of Environment and Natural Resources

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### Baccalaureate Non-nursing Curriculum

- [ENVS 001](#), [ENVS 002](#), [ENVS 007](#) or [NR 107/NH 107](#) (3-4 credits)
- [STAT 111 - Elements of Statistics](#) or [STAT 141 - Basic Statistical Methods](#) (3 credits)
- [HDFS 005 - Human Development](#) (3 credits)
- English Elective (3 credits)
- General Education Electives (18-19 credits)
- Philosophy, Religion or Ethics Elective (3 credits)
- Physical Education Elective (2 credits)
- Psychology Elective (3 credits)
- Quantitative Sciences Electives (19 credits)
- Sociology Elective (3 credits)
- At least one three credit course meeting the race relations and ethnicity guidelines must be taken prior to graduation.

### Affiliations

- Colleges and Schools:[College of Nursing and Health Sciences](#).
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## Courses offered by the Nursing Department

### Courses in Nursing

#### **NURS 015 - Personal Power in Health**

Explores consumer power in health care. Addresses how an individual can influence personal health as well as health of community.

Credits: 3.

#### **NURS 020 - Aging:Change & Adaptation**

Individual and social meanings of aging and old age; physical, physiological, psychological, and sociological changes accompanying aging; individual family, community, and societal adaptations to aging. Cross-listed with HDFS 020.

Credits: 3.

#### **NURS 030 - Trad Chin Med & Asian Bodywork**

This class introduces the student to Traditional Chinese Medicine. Emphasis is placed on developing assessment skills using TCM theories. The lab will include learning a basic, total bodywork session. Prerequisites: ANPS 019 &

Credits: 2.

#### **NURS 100 - Biology of Aging**

with: HDFS 152.

Credits: 3.

#### **NURS 105 - Cultural Health Care**

hours of service-learning in various community sites.

Credits: 3.

#### **NURS 115 - Women's Health & Advocacy**

- Education diseases, relationships, addictive disorders, Aims to demystify women's health care issues through understanding options/choices concerning sexuality, contraception, reproductive health, sexually transmitted anxiety/depression and more. Fall semester.
- Graduate College
- Honors College

- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Credits: 3.

### **NURS 120 - Pathophysiology**

will be examined. Prerequisites: ANPS 19,20. Recommended: This course is designed to provide the student with a comprehensive foundation in pathophysiology. The phenomena that result in dysfunction in human physiologic response MMG 65 or BMT 54.

Credits: 3.

### **NURS 124 - Mental Health and Aging**

Course will cover the main theories of older adult development and aging as well as the latest research on psychological and emotional changes with aging.

Credits: 3.

### **NURS 135 - Hlth Issues in Dev Countries**

Discussion of status and practice issues in developing countries including several Black African countries and Peoples' Republic of China. Historical, sociocultural, religious, political perspectives.

Credits: 3.

### **NURS 138 - Critical Care Nursing**

Prepares the experienced registered nurse with the knowledge to competently manage the critically ill adult management strategies. Pre/co-requisite: Registered Nurse status.

Credits: 6.

### **NURS 140 - Issues in Women's Health**

SOC 100.

Credits: 3.

### **NURS 141 - Healing Touch Level I**

and healing. Healing Touch is an energy based therapeutic approach to healing which uses touch to influence the energy system thus affecting physical, emotional and spiritual health

Credits: 1.

### **NURS 142 - Healing Touch Level 2**

sequences for specific client needs. Pre/co-requisite: NURS 141.

Credits: 1.

### **NURS 195 - Special Topics**

Credits: 1-6.

### **NURS 196 - Special Topics**

Credits: 1-6.

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## Courses in Nursing & Health Sciences

### **NH 107 - The Environment&Human Health**

Interdisciplinary understanding of the effects of anthropogenic factors including pollution, reduced biodiversity, climate change, overpopulation, and resource depletion on the health of natural systems and human populations. Pre/co-requisite: a college level science course; Sophomore standing. Cross-listed with: NR 107.

Credits: 3.

### **NH 108 - Exploration in Public Health**

From various disciplines, theoretical perspectives, and narrative experiences, the class will build and apply to contemporary issues and populations an ideal public health service model.

Credits: 3.

### **NH 195 - Special Topics**

Intermediate courses or seminars on topics beyond the scope of the normal departmental or college offerings. See Schedule of Courses for specific titles.

Credits: 1-6.

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## Faculty for Nursing Department

Sarah Elise Abrams

Associate Dean of the College of Nursing and Health Sciences

Associate Professor of Nursing

Appointed in 2002

Nursing Department

BA 1974 California State University

MS 1987 Yale University

PHD 1992 University of California

Search Courses for Sarah Abrams

Jean E. Beatson

Clinical Assistant Professor of Nursing

Appointed in 1998

Nursing Department

RN 1974 Bridgeport Hospital School of Nursing

BA 1994 Trinity College

MS 1996 University of Vermont

EDD 2004 University of Vermont

Search Courses for Jean Beatson

Marilyn M. Benis

Adjunct Assistant Professor of Nursing

Appointed in 2002

Nursing Department

AS 1982 University of Vermont

NNP 1993 Georgetown University

Education [MS 1999 Northeastern University](#)  
BSN 1999 [Northeastern University](#)  
• Graduate College [Search Courses for Marilyn Benis](#)

• Honors College

---

• School of Business Administration [Carol Lou Blattspieler](#)  
Adjunct Assistant Professor of Nursing  
Appointed in [1988](#)  
[Nursing Department](#)  
• The Rubenstein School of Environment and Natural Resources [RT 1974 University of Iowa](#)  
[BSN 1980 University of Vermont](#)  
[Search Courses for Carol Blattspieler](#)

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[Mary Louise Botter](#)  
Adjunct Associate Professor of Nursing  
Appointed in [2003](#)  
[Nursing Department](#)  
BSN 1976 [Duke University](#)  
MSN 1984 [University of Pennsylvania](#)  
PHD 1998 [University of Pennsylvania](#)  
[Search Courses for Mary Botter](#)

---

[Carol L. Buck-Rolland](#)  
Clinical Associate Professor of Nursing  
Appointed in [1992](#)  
[Nursing Department](#)  
BSN 1976 [University of Southern Maine](#)  
MSN 1981 [Virginia Commonwealth University](#)  
EDD 2010 [University of Vermont](#)  
[Search Courses for Carol Buck-Rolland](#)

---

[Jeanine M. Carr](#)  
Associate Professor of Nursing  
Appointed in [1994](#)  
[Nursing Department](#)  
AD 1983 [Castleton State College](#)  
BS 1987 [Clemson University](#)  
MS 1989 [Clemson University](#)  
PHD 1994 [University of South Carolina Aiken](#)  
[Search Courses for Jeanine Carr](#)

---

[Ellen Burke Ceppetelli](#)  
Adjunct Assistant Professor of Nursing  
Appointed in [2000](#)



Nursing Department

BSN 1968 University of Massachusetts Amherst

MS 1982 Boston College

Search Courses for Ellen Ceppetelli

---

Martha Elizabeth Churchill

Adjunct Assistant Professor of Nursing

Clinical Instructor of Obstetrics and Gynecology

Appointed in 1992

Nursing Department

Obstetrics, Gynecology and Reproductive Sciences

BSN 1986 Georgetown University

MSN 1989 University of Pennsylvania

Search Courses for Martha Churchill

---

Jean S. Coffey

Adjunct Assistant Professor of Pediatrics

Assistant Professor of Nursing

Appointed in 1994

Nursing Department

Pediatrics Department

ADN 1977 University of Vermont

BSN 1992 Norwich University

MS 1996 University of Vermont

PNP 1999 Northeastern University

PHD 2006 University of Connecticut

Search Courses for Jean Coffey

---

Judith Ann Cohen

Professor of Nursing

Appointed in 1981

Nursing Department

BS 1975 University of Vermont

MS 1981 University of Michigan Ann Arbor

PHD 1994 Wayne State University

Search Courses for Judith Cohen

---

Alice Angel Collins

Adjunct Assistant Professor of Nursing

Appointed in 2002

Nursing Department

AAS 1983 Forsyth Technical Community College

BA 1987 University of North Carolina

AD 1992 [Norwich University](#)  
MS 1998 [University of Vermont](#)  
[Search Courses for Alice Collins](#)

---

Jeanette Marie Conner  
Lecturer I of Nursing  
Appointed in [2001](#)  
[Nursing Department](#)  
BS 1986 [University of Washington](#)  
MN 1990 [University of Washington](#)  
MS 1996 [Dartmouth College](#)  
PHD 2001 [Dartmouth College](#)  
[Search Courses for Jeanette Conner](#)

---

Mary Julia Cronin  
Associate Professor of Nursing Emerita  
[Nursing Department](#)  
[Search Courses for Mary Cronin](#)

---

David George Curry  
Adjunct Assistant Professor of Nursing  
Appointed in [1993](#)  
[Nursing Department](#)  
BA 1970 [Boston University](#)  
BSN 1977 [Boston University](#)  
MSN 1981 [Simmons College](#)  
[Search Courses for David Curry](#)

---

Rosemary Louise Dale  
Chairperson of Nursing  
Clinical Professor of Nursing  
Appointed in [1976](#)  
[Nursing Department](#)  
AAS 1967 [CUNY Bronx Community College](#)  
BA 1970 [College of Mount Saint Vincent](#)  
MS 1974 [Ball State University](#)  
EDD 1976 [Ball State University](#)  
[Search Courses for Rosemary Dale](#)

---

Elizabeth Jones Davis  
Adjunct Assistant Professor of Nursing  
Appointed in [1988](#)  
[Nursing Department](#)

BA 1958 [University of New Hampshire](#)

BS 1961 [Columbia University](#)

MPH 1980 [Harvard University](#)

[Search Courses for Elizabeth Davis](#)

---

Nancy D. Donnelly

Adjunct Assistant Professor of Nursing

Appointed in [1999](#)

[Nursing Department](#)

AAS 1974 [Pace University](#)

BS 1978 [Metropolitan State College of Denver](#)

[Search Courses for Nancy Donnelly](#)

---

Diane T. Dulude

Adjunct Assistant Professor of Nursing

Appointed in [2001](#)

[Nursing Department](#)

AS 1978 [University of Vermont](#)

BS 1990 [Johnson State College](#)

CNM 1995 [Frontier School of Midwifery and Family Nursing](#)

MSN 1996 [Case Western Reserve University](#)

[Search Courses for Diane Dulude](#)

---

Karen L. Graves Farrell

Adjunct Assistant Professor of Nursing

Appointed in [1999](#)

[Nursing Department](#)

HDIP 1969 [Phillips Beth Israel School of Nursing](#)

BSN 1993 [Regis College](#)

MS 1996 [Northeastern University](#)

[Search Courses for Karen Farrell](#)

---

Rose J. Forgione

Associate Professor of Nursing Emerita

[Nursing Department](#)

[Search Courses for Rose Forgione](#)

---

Margaret Przybylowicz Gagne

Adjunct Assistant Professor of Nursing

Appointed in [1994](#)

[Nursing Department](#)

BSN 1979 [McGill University](#)

MS 1985 [University of Arizona](#)  
[Search Courses for Margaret Gagne](#)

---

Linda MacDonald Glenn  
Lecturer I of Nursing  
Appointed in [1999](#)  
[Nursing Department](#)  
AB 1977 [Douglass College](#)  
JD 1981 [Western New England College](#)  
[Search Courses for Linda Glenn](#)

---

Carol Ann Green  
Clinical Educator of Nursing  
Appointed in [1997](#)  
[Nursing Department](#)  
BSN 1967 [University of Vermont](#)  
MS 1985 [Russell Sage College](#)  
[Search Courses for Carol Green](#)

---

Brenda Pauline Hamel-Bissell  
Professor of Nursing  
Appointed in [1981](#)  
[Nursing Department](#)  
BS 1970 [University of Vermont](#)  
MS 1974 [Boston University](#)  
EDD 1981 [Boston University](#)  
[Search Courses for Brenda Hamel-Bissell](#)

---

Linda A Hunter  
Adjunct Instructor of Nursing  
Appointed in [2002](#)  
[Nursing Department](#)  
AS 1982 [Three Rivers Community College](#)  
BSN 1992 [University of Rhode Island](#)  
MSN 1995 [University of Rhode Island](#)  
[Search Courses for Linda Hunter](#)

---

Anne Marie Ireland  
Adjunct Assistant Professor of Nursing  
Appointed in [1993](#)  
[Nursing Department](#)  
BN 1984 [University New Brunswick](#)  
MSCN 1990 [University of Toronto](#)

[Search Courses for Anne Ireland](#)

---

Karol Jane Josselyn  
Adjunct Assistant Professor of Nursing  
Appointed in [1998](#)  
[Nursing Department](#)  
RN 1961 [Chestnut Hill College](#)  
MA 1994 [Antioch University New England](#)  
[Search Courses for Karol Josselyn](#)

---

Toni H. Kaeding  
Adjunct Assistant Professor of Nursing  
Appointed in [1997](#)  
[Nursing Department](#)  
BS 1975 [University of Minnesota Twin Cities](#)  
MS 1983 [Saint Michaels College](#)  
MS 1997 [Dartmouth College](#)  
[Search Courses for Toni Kaeding](#)

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Kathleen Carrigan Keleher  
Adjunct Assistant Professor of Nursing  
Appointed in [1979](#)  
[Nursing Department](#)  
BA 1969 [Northeastern University](#)  
BSN 1975 [University of Connecticut](#)  
MPH 1979 [Johns Hopkins University](#)  
[Search Courses for Kathleen Keleher](#)

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Cheryl A. Laskowski  
Adjunct Assistant Professor of Nursing  
Appointed in [2002](#)  
[Nursing Department](#)  
BS 1978 [Niagara University](#)  
MS 1985 [SUNY Buffalo](#)  
DNS 1995 [SUNY Buffalo](#)  
[Search Courses for Cheryl Laskowski](#)

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Jennifer S. Laurent  
Assistant Professor of Nursing  
Appointed in [2001](#)  
[Nursing Department](#)  
BS 1991 [University of Connecticut](#)

MS 1997 [University of Massachusetts Lowell](#)

PHD 2010 [Duquesne University](#)

[Search Courses for Jennifer Laurent](#)

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Ellen Leff

Adjunct Assistant Professor of Nursing

Appointed in [1997](#)

[Nursing Department](#)

BA 1970 [Wellesley College](#)

BSN 1978 [University of Vermont](#)

MS 1988 [Saint Michaels College](#)

[Search Courses for Ellen Leff](#)

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Benjamin Littenberg

Professor of Medicine - General Internal

Professor of Nursing

Appointed in [1999](#)

[General Internal Medicine, College of Medicine](#)

[Nursing Department](#)

BA 1979 [Case Western Reserve University](#)

MD 1983 [Case Western Reserve University](#)

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Jane Andrews Luria

Adjunct Assistant Professor of Nursing

Appointed in [2000](#)

[Nursing Department](#)

BS 1978 [University of New Hampshire](#)

MS 1984 [Simmons College](#)

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Estelle P. Maartmann-Moe

Lecturer I of Nursing

Appointed in [1996](#)

[Nursing Department](#)

AS 1968 [Northeastern University](#)

BA 1976 [University of Massachusetts Amherst](#)

MS 1994 [University of Massachusetts Amherst](#)

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Francis E. Magee

Assistant Professor of Nursing Emerita

[Nursing Department](#)

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Dorothy Malone-Rising  
Adjunct Assistant Professor of Nursing  
Appointed in [1995](#)  
[Nursing Department](#)  
BSN 1976 [Boston College](#)  
MS 1988 [University of Massachusetts Lowell](#)  
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Hendrika J. Maltby  
Professor of Nursing  
Appointed in [2000](#)  
[Nursing Department](#)  
BA 1975 [University of Windsor](#)  
BSCN 1976 [University of Windsor](#)  
MSCN 1986 [University of Western Ontario](#)  
PHD 1997 [Curtin University of Technology](#)  
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Loretta Dow Marriott  
Adjunct Assistant Professor of Nursing  
Appointed in [1986](#)  
[Nursing Department](#)  
BS 1970 [University of Vermont](#)  
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Carole H. McCay  
Clinical Educator I of Nursing  
Appointed in [1997](#)  
[Nursing Department](#)  
BSN 1979 [Widener University](#)  
MSN 1983 [University of Pennsylvania](#)  
[Search Courses for Carole McCay](#)

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Iris S. McDonald  
Adjunct Assistant Professor of Nursing  
Appointed in [1989](#)  
[Nursing Department](#)  
BS 1964 [University of Vermont](#)  
MS 1982 [Russell Sage College](#)  
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Christina S. Melvin  
Clinical Associate Professor of Nursing  
Appointed in [1992](#)  
[Nursing Department](#)  
BS 1974 [University of Vermont](#)  
MS 1979 [Boston College](#)  
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Gabrielle Mikula  
Adjunct Assistant Professor of Nursing  
Appointed in [1999](#)  
[Nursing Department](#)  
AS 1985 [University of Vermont](#)  
BS 1987 [University of Vermont](#)  
MSW 1996 [University of Massachusetts Amherst](#)  
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Sharon Moffatt  
Adjunct Assistant Professor of Nursing  
Appointed in [1997](#)  
[Nursing Department](#)  
BS 1975 [University of Vermont](#)  
MS 1979 [University of Vermont](#)  
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Nancy Schappler Morris  
Associate Professor of Nursing  
Appointed in [1996](#)  
[Nursing Department](#)  
BS 1980 [Salve Regina University](#)  
MS 1986 [Boston College](#)  
PHD 1997 [Boston College](#)  
[Search Courses for Nancy Morris](#)

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Catharine Ashley Muskus  
Clinical Assistant Professor of Nursing  
Appointed in [2002](#)  
[Nursing Department](#)  
BA 1975 [Windham College](#)  
BS 1995 [University of Vermont](#)  
MS 2002 [University of Vermont](#)  
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Colleen E. Nadolski  
Adjunct Assistant Professor of Nursing  
Appointed in [1999](#)  
[Nursing Department](#)  
BSM 1974 [Fitchburg State College](#)  
MS 1984 [Clemson University](#)  
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Deborah Lynn Norton  
Lecturer of Nursing  
Appointed in [1992](#)  
[Nursing Department](#)  
BS 1990 [Russell Sage College](#)  
MS 1991 [Russell Sage College](#)  
EDD 1998 [University of Vermont](#)  
[Search Courses for Deborah Norton](#)

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David Aldrich Osgood  
Adjunct Lecturer of Nursing  
Appointed in [1973](#)  
[Nursing Department](#)  
BA 1966 [University of Vermont](#)  
MPH 1971 [Yale University](#)  
EDD 1991 [University of Massachusetts Amherst](#)  
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---

Mary Val Palumbo  
Associate Professor of Nursing  
Appointed in [2004](#)  
[Nursing Department](#)  
BS 1976 [East Stroudsburg University](#)  
MSN 1985 [MGH Institute of Health Professions](#)  
DNP 2004 [Rush Medical College](#)  
[Search Courses for Mary Palumbo](#)

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Carl J. Possidente  
Adjunct Assistant Professor of Nursing  
Appointed in [1999](#)  
[Nursing Department](#)  
RPH 1975 [University of Connecticut](#)  
PHMD 1998 [Albany College of Pharmacology](#)

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---

Betty A. Rambur  
Professor of Nursing  
Appointed in [2000](#)  
[Nursing Department](#)  
BS 1978 [University of Mary](#)  
MS 1988 [Rush Medical College](#)  
DNSC 1991 [Rush Medical College](#)  
[Search Courses for Betty Rambur](#)

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Victoria E. Rinehart  
Adjunct Assistant Professor of Nursing  
Appointed in [2002](#)  
[Nursing Department](#)  
AAS 1977 [Mohawk Valley Community College Utica](#)  
BS 1981 [SUNY Albany](#)  
MS 1986 [Russell Sage College](#)  
EDD 1992 [Teachers College at Columbia University](#)  
[Search Courses for Victoria Rinehart](#)

---

Marcia E. Ring  
Assistant Professor of Nursing  
Appointed in [2003](#)  
[Nursing Department](#)  
AA 1977 [Los Angeles County College of Nursing and Allied Health](#)  
BSN 1995 [George Mason University](#)  
MSN 2001 [Catholic University of America](#)  
PhD 2006 [Catholic University of America](#)  
[Search Courses for Marcia Ring](#)

---

Mary Lee Ritter  
Adjunct Assistant Professor of Nursing  
Clinical Assistant Professor of Pediatrics  
Appointed in [1994](#)  
[Nursing Department](#)  
[Pediatrics Department](#)  
RN 1968 [Saint Francis Medical Center School of Nursing](#)  
BSN 1979 [Northeastern University](#)  
[Search Courses for Mary Ritter](#)

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Diane R Sande  
Lecturer of Nursing Emerita

Appointed in [1988](#)  
[Nursing Department](#)  
BS 1972 [Boston College](#)  
MS 1980 [Russell Sage College](#)  
[Search Courses for Diane Sande](#)

---

Kathleen R. Scacciaferro  
Lecturer II of Nursing  
Appointed in [2001](#)  
[Nursing Department](#)  
BA 1975 [Hartwick College](#)  
BSN 1982 [University of Vermont](#)  
MSA 1994 [Saint Michaels College](#)  
[Search Courses for Kathleen Scacciaferro](#)

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Barbara E. Segal  
Adjunct Assistant Professor of Nursing  
Appointed in [1999](#)  
[Nursing Department](#)  
RN 1971 [University of Pennsylvania](#)  
BS 1978 [Boston University](#)  
MS 1982 [Boston University](#)  
[Search Courses for Barbara Segal](#)

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Hollie G. Shaner-McRae  
Adjunct Assistant Professor of Nursing  
Appointed in [1998](#)  
[Nursing Department](#)  
AAS 1976 [Gloucester County College](#)  
BA 1983 [University of Vermont](#)  
MSA 1995 [Saint Michaels College](#)  
DNP 2008 [Rush Medical College](#)  
[Search Courses for Hollie Shaner-McRae](#)

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Judith S. Shaw  
Associate Professor of Pediatrics  
Research Associate Professor of Nursing  
Appointed in [2000](#)  
[Nursing Department](#)  
[Pediatrics Department](#)  
RN 1977 [Children's Hospital](#)  
BLS 1986 [Yale University](#)  
MPH 1997 [Boston University](#)

[Search Courses for Judith Shaw](#)

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Brenda Kay Smith  
Adjunct Assistant Professor of Nursing  
Appointed in [2000](#)  
[Nursing Department](#)  
ADN 1994 [New Mexico State University](#)  
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Anne T. Standish  
Adjunct Assistant Professor of Nursing  
Appointed in [1999](#)  
[Nursing Department](#)  
BA 1977 [University of Vermont](#)  
MS 1982 [Pace University](#)  
[Search Courses for Anne Standish](#)

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Sherrilyn R. Sytsma  
Adjunct Assistant Professor of Nursing  
Appointed in [2000](#)  
[Nursing Department](#)  
BSN 1989 [CUNY City College](#)  
MED 1991 [Plymouth State University](#)  
CNP 1994 [University of Pennsylvania](#)  
[Search Courses for Sherrilyn Sytsma](#)

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Linda R. Thomson  
Adjunct Assistant Professor of Nursing  
Appointed in [1999](#)  
[Nursing Department](#)  
BSN 1972 [Hartwick College](#)  
PNP 1975 [Northeastern University](#)  
MSN 1977 [University of Massachusetts Amherst](#)  
PHD 2001 [American Pacific University](#)  
[Search Courses for Linda Thomson](#)

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Joan Estella Webber-Jones  
Adjunct Assistant Professor of Nursing  
Appointed in [1991](#)  
[Nursing Department](#)  
BS 1963 [Moravian College](#)  
EDM 1968 [Boston University](#)

## Search Courses for Joan Webber-Jones

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Stuart Luhn Whitney  
Clinical Associate Professor of Nursing  
Coordinator of Nursing  
Appointed in [1987](#)  
[Nursing Department](#)  
BS 1981 [Saint Joseph's College of Maine](#)  
MS 1987 [University of Arizona](#)  
EDD 2004 [University of Vermont](#)  
[Search Courses for Stuart Whitney](#)

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Darla E. Witmer  
Adjunct Assistant Professor of Nursing  
Appointed in [1999](#)  
[Nursing Department](#)  
BSN 1979 [Northeastern University](#)  
MSN 1981 [Simmons College](#)  
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Colleges and Schools > College of Nursing and Health Sciences > Requirements > College of Nursing and Health Sciences Undergraduate Degree Requirements

## College of Nursing and Health Sciences Undergraduate Degree Requirements

Requirements for admission, retention and graduation are detailed below for each of the undergraduate degree programs. The College of Nursing and Health Sciences reserves the right to require the withdrawal of any student whose academic record, performance, or behavior in the professional programs is judged unsatisfactory. All candidates for admission and continuation must be able to perform the essential clinical as well as academic requirements of CNHS programs. These requirements include: the capacity to observe and communicate; sufficient motor ability to perform physical diagnostic examinations and basic laboratory and clinical procedures; emotional stability to exercise good judgment and to work effectively in stressful situations; and intellectual ability to synthesize data and solve problems. CNHS students must be able to meet these technical standards either with, or without, reasonable accommodations. Some professional licensing examiners, clinical affiliates and/or potential employers may require students and graduates to disclose personal health history, substance abuse history, and/or criminal convictions, which may, under certain conditions, impact eligibility for professional examinations, licensing, clinical affiliation, and/or employment. Some programs have additional clinical requirements such as CPR certification. Students who matriculate in the College of Nursing and Health Sciences are required to complete a Criminal Record Check (CRC) as a prerequisite for placement in many schools and clinical agencies with whom we have affiliation agreements. Evidence of a criminal record may prevent students from being eligible for clinical placement, and/or professional licensure.

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Colleges and Schools > College of Nursing and Health Sciences > Requirements > Requirements for All Undergraduate Degree Students

## Requirements for All Undergraduate Degree Students

### College and School Requirements

Undergraduate degrees are conferred on the recommendation of the colleges/schools. Specific degree requirements may be found in the catalogue sections devoted to the respective colleges/schools.

### Grades

To be eligible for graduation, a student must have attained a cumulative grade-point average sufficient to meet the minimum requirements for the college/school in which the student is officially enrolled. Beginning with the class of 1984, the minimum grade-point average for graduation is 2.00. Grades in courses accepted for transfer credit are excluded in computing this average.

### UVM Residency in Last 30 of 45 Credit Hours

Every degree candidate must have taken 30 of the last 45 credit hours (15 of the last 30 for two-year students) in residence at the University before being awarded their degree. An exception to this rule exists for those students who have completed three years of premedical study in the University and are awarded their degrees after successful completion of one year of study in any approved college of medicine. Other exceptions to this rule may be made only upon decision of the dean or the appropriate faculty committee of the student's college/school.

### Second Bachelor's Degree

A student may earn more than one degree by satisfying all of the requirements for those degrees.

## Education

### Physical Education Requirement

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Two physical education credits, normally completed during the first or sophomore year, are required of all undergraduate students in four-year programs. These credits will be included in the total number of hours required for graduation. Students may opt to take physical education on a pass/no pass basis. Medical examinations are required of all new students. Those with serious conditions may be given restricted work or may be excused by the Director of the Student Health Center.

Students 25 years of age or older at time of admission or readmission are exempt from physical education requirements.

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## Continuing Education (CE)

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### Contact Information

Courses

*University of Vermont  
Continuing Education  
322 South Prospect St.  
Burlington, VT 05401*

Academic Offerings

Phone: (802) 656-2085 or (800) 639-3210

Colleges and Schools

Fax: (802) 656-0306

Email: [learn@uvm.edu](mailto:learn@uvm.edu)

- College of  
Agriculture and Life  
Sciences

[Web Site](#)

- College of Arts and  
Sciences

### Overview

- College of  
Education and  
Social Services

Continuing Education serves UVM's commitment to lifelong learning through the development and delivery of educational courses and programs that connect the resources of the University with the needs of non-degree and summer students in Vermont and the Northeast. Through innovative courses and programs, available on campus, in the workplace, or around the state, CE delivers a variety of educational opportunities for pre-college, college, and post-graduate students and professionals.

- College of  
Engineering and  
Mathematics

### Advising

- College of  
Medicine

Advising services are available to anyone enrolled in Continuing Education or who may be interested in enrolling in the future. Advisors are well versed in non-traditional student issues, available to answer questions about educational opportunities at the University, and can refer potential students to the appropriate offices when necessary. In addition to discussing admission and academic requirements, advisors also help resolve administrative problems and answer questions about University policy.

- College of Nursing  
and Health  
Sciences

- **Continuing**



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## Honors College (HC)

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### Contact Information

Courses

*University of Vermont*

*Honors College*

Academic Offerings

*100 Allen House*

*Burlington, VT 05405*

Colleges and Schools

Phone: (802) 656-9100

Fax: (802) 656-9009

Email: [Honors.College@uvm.edu](mailto:Honors.College@uvm.edu)

- College of  
Agriculture and Life  
Sciences

[Web Site](#)

- College of Arts and  
Sciences

### Overview

- College of  
Education and  
Social Services

The Honors College (HC) offers an intensely focused, academically challenging environment for some of the university's most outstanding undergraduate students. The Honors College involves a broad cross-section of the University community, existing not as a cloistered academic enclave but as a vital part of that larger community. The Honors College is above all a community of scholars -- students and faculty -- committed to the ideals of excellence in scholarship, academic rigor, and intellectual inquiry and engagement.

- College of  
Engineering and  
Mathematics

### Admission to the Honors College

- College of  
Medicine

Admission to the Honors College is based on prior academic performance and students are admitted in one of two ways. First year students are invited to the HC based on the strength of their application to the University; no additional application is required. Up to 100 first year students are admitted each year.

- College of Nursing  
and Health  
Sciences

- Continuing

Because the College exists to recognize and encourage academic excellence, it also

- Education
- Graduate College
- **Honors College**
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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welcomes the applications for sophomore admission from students who were not in the HC in the first year, and are among the top performers as first year students at UVM. Sophomore admission requires an application form, a 3.4 grade point average at the end of the first year, letters of recommendation from UVM faculty, and a brief essay. Up to 100 sophomores are admitted annually.

### Academic Standards

Students whose overall GPA falls below 3.2 will be given one semester to raise it back over this level. Failure to do so will make them subject to dismissal from the HC. The Dean will have discretion to take personal considerations into account prior to dismissal for low achievement. Students will be subject to dismissal from the HC if they receive grades below C- totaling more than 8 credits of coursework. Students with a Major Academic Offense, determined by standard University procedure, will be dismissed from the HC. Students with a Minor Academic Offense, determined by standard University procedure, will be given a warning of dismissal in the event of another Major or Minor Academic Offense.

### Curriculum

The Honors College curriculum is designed to supplement and enrich the offerings of the "home" schools and colleges with multidisciplinary courses and seminars that broaden intellectual horizons and stimulate discussion, debate, writing, research and reflection. Enrollment in Honors College seminars is limited to Honors College students. Students who complete all Honors College curricular requirements in addition to the degree requirements of the home school or college graduate as University Scholars. Honors College courses are taught by distinguished faculty drawn from the range of academic disciplines at UVM.

### The First Year Seminar

*"Making Ethical Choices: Personal, Public, Professional"*: This seminar provides a common experience (3 credits each semester) for all first year students in the Honors College. It is multidisciplinary: taught by a core faculty with additional lectures given by faculty drawn from across the University, including but not limited to: animal sciences, biomedical technologies, business administration, computer science, education, engineering, environmental studies, nursing, and women's studies. It is designed to incorporate classic works by philosophers such as Plato and Mill and the contemporary writings of distinguished philosophers like John Rawls and Peter Singer and is taught in small seminars (about 20 students in each section) intended to promote intellectual discussion. The seminar is writing intensive, requiring multiple drafts of papers that encourage students to develop their reasoning and focus their writing and is designed to guide students in thinking rigorously about ethical problems in many applied contexts. The course is supplemented by plenary lectures (7-8 throughout the year) by University faculty and administrators to which the entire University community is invited.

### Sophomore Seminar

Sophomores take two three-credit special topics courses, one in the fall and one in the spring, selected from an extensive slate of offerings created for HC students by faculty in schools and colleges University-wide. Special topics vary from year to year.

### Junior and Senior Years

In the junior year, students take one three-credit seminar in their home college or school that prepares them for their senior year honors project. Senior students complete a six-credit research thesis or senior project approved by their home school or college. Requirements will vary slightly in different schools and colleges. Students should consult with the advisor in their home school or college.

### Residential Component

The Honors College will soon be moving to a new residential complex at University Heights, providing housing for HC students, as well as permanent office space for the HC administration and staff. In addition, the new complex will include seminar, lounge, and meeting space for the Honors College. Students are strongly encouraged to live in the Honors College residency.

### Co Curriculars

All UVM faculty and students and the general public are invited to participate in frequent Honors College-sponsored events such as lectures and symposia presented by faculty, students, and distinguished visiting scholars and artists.

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- College of Nursing and Health Sciences
- Continuing

## School of Business Administration (BSAD)

### Contact Information

*University of Vermont*  
*School of Business Administration*  
*Kalkin Hall*  
*55 Colchester Avenue*  
*Burlington, VT 05405-0158*

Phone: (802) 656-3175

Fax: (802) 656-8279

Email: [business@bsad.uvm.edu](mailto:business@bsad.uvm.edu)

[Web Site](#)

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Sciences

• College of Arts and  
Sciences

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## Business Administration (Bachelor of Science)

### General Requirements

- [School of Business Administration Degree Requirements](#)
- [Requirements for All Undergraduate Degree Students](#)

### Specific Requirements

#### Basic Business Core (24-26 credit hours)

To be completed by the end of the sophomore year with a grade-point average of 2.0.

- [MATH 019](#) and [MATH 020](#); or [MATH 021](#)
- [EC 011](#) and [EC 012](#)
- [STAT 141](#)
- [BSAD 040](#), [BSAD 060](#), [BSAD 061](#)

#### Business Field Courses (24 credit hours)

To be completed beginning junior year, with a grade-point average of at least 2.0.

- Quantitative Methods, [BSAD 120](#), [BSAD 132](#), [BSAD 141](#), [BSAD 150](#), [BSAD 173](#), [BSAD 180](#), [BSAD 191](#).
- Students must have junior status and have completed the Basic Business Core before taking Business Field courses.
- The Quantitative Methods course is selected from among [BSAD 170](#), [BSAD 174](#), [BSAD 177](#), [BSAD 178](#), [BSAD 266](#), [BSAD 270](#), [BSAD 272](#); [EC 270](#); and [STAT 151](#), [STAT 195](#), [STAT 201](#), [STAT 221](#), [STAT 223](#), [STAT 224](#), [STAT 225](#), [STAT 231](#), [STAT 233](#), [STAT 237](#), [STAT 253](#).
- [BSAD 191](#) is taken in the senior year.

## Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

**Business Discipline Concentration (at least 12 credits)**

To be completed with a grade point average of at least 2.0.

The student must complete at least 12 hours in Business Administration courses numbered 100 or above beyond those required for the Business Field courses. One approach is to concentrate these courses in one of the areas of Accounting, Entrepreneurship, Finance, Human Resource Management, Management and the Environment, Management Information Systems, Marketing, International Management, or Productions and Operations Management. Students may also complete a self-designed program.

The specific requirements for each Discipline Concentration are available from the Student Services Office in 101 Kalkin Hall. A faculty member teaching in the discipline of the concentration must approve any exception to these requirements.

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**General Education Requirements**

The General Education Requirement framework is based on six field blocks. The Six Fields are:

1. Arts and Humanities ♦ Art, Classics, History, Music, Philosophy, Religion, Theatre
2. Writing and Speaking ♦ Speech, English (writing, literature, and film courses)
3. Social Sciences ♦ Anthropology, Environmental Studies, Geography, Political Science, Psychology, Sociology, Women's Studies
4. Natural Sciences, Mathematics and Engineering ♦ Astronomy, Biology, Botany, Chemistry, Civil Engineering, Computer Science, Electrical Engineering, Environmental Science, Geology, Mathematics, Mechanical Engineering, Natural Resources, Physics, Statistics
5. Area and International Studies ♦ African Studies, Asian Studies, Canadian Studies, European Studies, Latin American Studies, Middle East Studies, Russian/East European Studies, Holocaust Studies
6. Language and Literature ♦ Chinese, American Sign Language (in CMSI), French, German, Greek, Hebrew, Italian, Japanese, Latin, Literature classes, Russian, Spanish, World Literature

**Basic General Education Core (at least 19 credit hours)**

Six courses. Each requirement must be filled with a course worth at least 3 credits. One from each of the following:

1. United States or Global History from [HST 009](#), [HST 010](#), [HST 011](#), [HST 012](#), [HST 019](#), [HST 025](#), or [HST 026](#).
2. English course that emphasizes practice in writing from [ENGS 001](#), [ENGS 050](#), [ENGS 053](#), [ENGS 120](#)
3. Social Science from any discipline in field 3 above
4. Natural Science that includes a laboratory or field experience from [ASTR 5](#) and [ASTR 23](#), [ASTR 5](#) and [ASTR 24](#); [BIOL 001](#), [BIOL 002](#); [BOT 004](#); [CHEM 020](#),



CHEM 023, CHEM 031, CHEM 035; GEOL 001, GEOL 004, GEOL 055; NR 001;  
PHYS 011 and PHYS 021, PHYS 031 and PHYS 021

5. Area and International Studies from any discipline in field 5 above
6. Language or Literature from any discipline in field 6 above

Cross-listed courses may count for only one Basic General Education Core requirement.

### **General Education Field Concentration (at least 12 credit hours)**

Students must complete at least 12 credits in any one of the six general fields listed above. They may take any combination of courses within the field. For example, in the Social Sciences field, two Political Science courses, a Sociology course and a Women's Studies course might make up the field concentration.

One course from the Basic General Education Core may be used as one of the General Education Field Concentration courses.

### **General Education Discipline Concentration (at least 12 credit hours)**

Students must accumulate 12 credits in a single discipline. The discipline may not be in the field chosen for the General Education Field Concentration.

Disciplines are specific academic areas, not broad fields. For example, Religion is a discipline in field 1. If Religion is chosen, the student may not include Philosophy and Art classes, even though they are in the same field.

One course from the Basic General Education Core may be used as one of the General Education Discipline Concentration.

As a general rule, two discipline concentration courses must be numbered 100 or higher. Exceptions: (1) if a language is chosen, at least one course must be numbered 51 or higher; (2) if Mathematics or Computer Science is chosen, at least two courses must be numbered 21 or higher; (3) if a Natural Science or Engineering discipline is chosen, there is no restriction on course level.

Caution: In some disciplines, there may not be sufficient courses or space in courses for a discipline concentration to be an option. Currently these include, but may not be limited to, Speech, Studio Art, and American Sign Language. Check with the department if there are any questions.

Students may submit a petition to the Undergraduate Studies Committee to seek approval on an exception basis to pursue a self-designed General Education Discipline Concentration. The petition should provide a rationale for the combination of courses proposed. Submit petition in 101 Kalkin Hall.

### **Race Relations and Ethnic Diversity in the U.S. (3 credit hours)**

Students must complete one three-credit course that addresses the question of race relations and ethnic diversity in the U.S. Courses that fill this requirement are approved

by the College of Arts and Sciences. The course selected to satisfy this requirement may also be used to fulfill another general education requirement. Otherwise, an elective course must be used to meet the requirement.

### Physical Education (2 credit hours)

All students are required to complete two credits in Physical Education Activities Courses (PEAC). No more than two credits will count toward the 122 hours required for graduation. Students who enter the University at age 25 or older may waive the two credits of PEAC.

### Electives

#### General Education Electives

Students will take additional courses in subjects so that at least half of their course work is outside of Business Administration and Upper-level (100-level or above) Economics.

#### Other Electives

Students take additional electives, either inside or outside of Business to achieve the total 122 credit hours required for their degree.

#### Restrictions on Electives

1. No credit will be granted for a course that is assumed prerequisite knowledge for a course previously completed.
2. No credit will be granted for a course that substantially duplicates material in courses offered in Business Administration or in other previously completed courses.
3. Only two credits of PEAC will count towards the required 122 credits.

### Curriculum

Here is *one* illustrative schedule for the program. (Numbers shown are credits.)

FIRST-YEAR		
Course	Credits	
	Fall	Spring
<u>BSAD 040 Information Technology &amp; Mgmt</u>	3	
<u>EC 011 Principles of Macroeconomics</u>	3	
<u>MATH 019 Fundamentals of Calculus I</u>	3	
<u>EC 012 Principles of Microeconomics</u>		3
<u>MATH 020 Fundamentals of Calculus II</u>		3
General Education Courses	6-7	9-10

Total	15-16	15-16
<b>SOPHOMORE</b>		
Course	Term	
	Fall	Spring
<u>BSAD 060 Financial Accounting</u>	4	
<u>BSAD 061 Managerial Accounting</u>		4
<u>STAT 141 Basic Statistical Methods</u>		3
General Education Courses	12-13	9-10
Total	16-17	16-17
<b>JUNIOR YEAR</b>		
Course	Term	
	Fall	Spring
Business Field Courses	9	9
General Education or Electives	6	6
Total	15	15
<b>SENIOR YEAR</b>		
Course	Term	
	Fall	Spring
Business Field Course	3	
<u>BSAD 191 Business Policy</u>		3
Business Discipline Concentration Courses	6	6
General Education or Electives	6	6
Total	15	15

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Colleges and Schools > School of Business Administration > Academic Offerings > Accounting (Minor)

## Accounting (Undergraduate Minor)

### Specific Requirements

#### Prerequisites:

Economics 11, Economics 12, Mathematics 19 or 21, Statistics 111 or 141. Students must have basic microcomputer literacy, including a working knowledge of word processing and spreadsheet software. Students lacking this basic knowledge are responsible for attaining it through course work, self study, tutorials, or workshops.

*Introductory Accounting:* [BSAD 60](#) and [BSAD 61](#) or [BSAD 65](#). (A student may not receive credit for [BSAD 65](#) after completion of either [BSAD 60](#) or [BSAD 61](#).) Students must earn at least a 2.0 in *each* introductory accounting course taken to continue with an accounting minor. If a 2.0 is not achieved, a student may switch to a business administration minor.

*Upper Level Accounting Requirements:* [BSAD 161](#), and [BSAD 162](#), plus two courses from [BSAD 164](#), [BSAD 168](#), [BSAD 266](#), and [BSAD 267](#). A student must earn a 2.0 average in these four courses to earn an accounting minor.

#### Students Majoring in Business

Students majoring in Business Administration are not required to have a minor to meet degree requirements; however, a business student may choose to have a minor outside of Business. The department issuing the minor sets the requirements and determines if the student is eligible to minor in their program. The student must contact the appropriate department to obtain more information.

#### Non-Business Students

Two different minors are available in the School of Business Administration for non-

- Education
- Graduate College
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business majors: Business Administration or Accounting. An application is required and may be obtained at the Student Services Office, 101 Kalkin Hall. Acceptance into the minor program requires completion of the prerequisite courses with a GPA of 2.0 or better in these courses. Admission may be more restrictive if applications exceed the capacity of the program.

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Colleges and Schools > School of Business Administration > Academic Offerings > Business Administration (Minor)

## Business Administration (Undergraduate Minor)

### Specific Requirements

#### Prerequisites:

Economics 11, Economics 12, Mathematics 19 or 21, Statistics 111 or 141. Students must have basic microcomputer literacy, including a working knowledge of word processing and spreadsheet software. Students lacking this basic knowledge are responsible for attaining it through course work, self study, tutorials, or workshops.

*Accounting:* [BSAD 60](#) and [BSAD 61](#) or [BSAD 65](#). (A student may not receive credit for [BSAD 65](#) after completion of [BSAD 60](#) or [BSAD 61](#).)

*Other Business requirements:* Three business field courses (numbered 100-299), at least one of which must be from the following list: [BSAD 120](#), [BSAD 132](#), [BSAD 141](#), [BSAD 150](#), [BSAD 173](#), or [BSAD 180](#).

To be awarded a business administration minor, a student must earn at least a 2.0 cumulative grade point average in the business minor courses.

*One year MBA opportunity:* A student minoring in Business Administration may complete an MBA at UVM in one year after earning a bachelor's degree if: (1) [BSAD 60](#) and [BSAD 61](#) are completed; (2) three of [BSAD 120](#), [BSAD 132](#), [BSAD 150](#), [BSAD 173](#), and [BSAD 180](#) are selected to meet the minor requirement; (3) the other two courses on this list are taken as electives; and (4) the student applies and is admitted to the MBA program under regular criteria.

#### Students Majoring in Business

Students majoring in Business Administration are not required to have a minor to meet degree requirements; however, a business student may choose to have a minor outside

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of Business. The department issuing the minor sets the requirements and determines if the student is eligible to minor in their program. The student must contact the appropriate department to obtain more information.

### Non-Business Students

Two different minors are available in the School of Business Administration for non-business majors: Business Administration or Accounting. An application is required and may be obtained at the Student Services Office, 101 Kalkin Hall. Acceptance into the minor program requires completion of the prerequisite courses with a GPA of 2.0 or better in these courses. Admission may be more restrictive if applications exceed the capacity of the program.

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Colleges and Schools > School of Business Administration > Requirements > Requirements for All Undergraduate Degree Students

## Requirements for All Undergraduate Degree Students

### College and School Requirements

Undergraduate degrees are conferred on the recommendation of the colleges/schools. Specific degree requirements may be found in the catalogue sections devoted to the respective colleges/schools.

### Grades

To be eligible for graduation, a student must have attained a cumulative grade-point average sufficient to meet the minimum requirements for the college/school in which the student is officially enrolled. Beginning with the class of 1984, the minimum grade-point average for graduation is 2.00. Grades in courses accepted for transfer credit are excluded in computing this average.

### UVM Residency in Last 30 of 45 Credit Hours

Every degree candidate must have taken 30 of the last 45 credit hours (15 of the last 30 for two-year students) in residence at the University before being awarded their degree. An exception to this rule exists for those students who have completed three years of premedical study in the University and are awarded their degrees after successful completion of one year of study in any approved college of medicine. Other exceptions to this rule may be made only upon decision of the dean or the appropriate faculty committee of the student's college/school.

### Second Bachelor's Degree

A student may earn more than one degree by satisfying all of the requirements for those degrees.



## Education

### Physical Education Requirement

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

Two physical education credits, normally completed during the first or sophomore year, are required of all undergraduate students in four-year programs. These credits will be included in the total number of hours required for graduation. Students may opt to take physical education on a pass/no pass basis. Medical examinations are required of all new students. Those with serious conditions may be given restricted work or may be excused by the Director of the Student Health Center.

Students 25 years of age or older at time of admission or readmission are exempt from physical education requirements.

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Colleges and Schools > School of Business Administration > Requirements > School of Business Administration Academic Standards

## School of Business Administration Academic Standards

Students will be placed on trial if their semester or cumulative grade-point average is less than 2.0. Students will remain on trial until both semester and cumulative grade-point averages reach at least 2.0 or until they are dismissed. Students on trial will be given a target semester grade-point average to achieve by the end of the following semester.

Students shall be dismissed from the University in the following situations: (1) failure to achieve the target grade-point average while on trial; (2) failure of at least half their course credits in any semester while maintaining a cumulative grade-point average of less than 2.0. First year students who have just completed their first semester will be dismissed if they earn a grade-point average of 1.0 or less and fail at least half their course credits.

A student may appeal a dismissal in writing to the Undergraduate Studies Committee within the time frame stipulated in the dismissal letter if there are circumstances supporting an extension of trial status. Detailed information on the criteria for dismissal may be obtained from the School of Business Student Services Office.

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Colleges and Schools > School of Business Administration > Requirements > School of Business Administration Degree Requirements

## School of Business Administration Degree Requirements

Students must comply with the degree requirements as stated in a single catalogue edition in place during the time they are enrolled. The catalogue to be followed is the one in effect at the time a student enrolls at UVM, unless the student requests in writing to follow a catalogue that is published subsequently during their enrollment at UVM.

Students who have a separation from the University of three years or more must meet the requirements of the current catalogue at the date of readmission.

A minimum of 122 approved semester hours is required for the degree of Bachelor of Science in Business Administration. A cumulative grade point average of 2.0 is required. At least 50% of course work must be taken in subjects that are not business or upper level economics. Students must complete 30 of the last 45 hours of credit in residence at UVM as a matriculated student.

The Business Field requirement courses and the Business Discipline Concentration courses must each be filled with at least 50 percent of business administration courses taken at UVM. Other UVM courses may be used towards these requirements if approved by the Undergraduate Studies Committee.

Students choosing an international management concentration may complete all Business Discipline Concentration credit hours at an approved abroad institution. However, they will be required to complete 75 percent of their Business Field credit hours in UVM business courses or in other UVM courses approved by the Undergraduate Studies Committee.

Additional grade requirements exist for basic business core, business field, and business discipline concentration courses.

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Colleges and Schools > School of Business Administration > Requirements > School of Business Administration Special Programs

## School of Business Administration Special Programs

### Professional Accounting Program

Students planning to sit for the CPA examination should complete the Professional Accounting Program: [BSAD 017](#), [BSAD 018](#), [BSAD 161](#), [BSAD 162](#), [BSAD 164](#), [BSAD 168](#), [BSAD 266](#), [BSAD 267](#). Completion of the Professional Accounting Program satisfies the Business Discipline Concentration requirement. [BSAD 266](#) may be used to satisfy both the Quantitative Methods requirement and the Professional Accounting Program requirement.

Completion of the professional accounting program fulfills the academic requirements to sit for the CPA examination in the State of Vermont. The requirements to sit for the CPA examination vary among states, therefore students who plan to sit for the examination in a state other than Vermont are advised to contact the state's [Board of Accountancy](#)  to obtain current requirements.

### International Management

Students interested in International Management are expected to spend the spring semester of their junior year studying abroad.

The University of Vermont participates in a number of exchange programs with institutions around the world.

It is also possible for students to spend a semester at other international universities. It is recommended that International Management students complete [BSAD 120](#), [BSAD 150](#), and [BSAD 180](#) before going abroad.

### Preprofessional Work Programs

Students are encouraged to participate in preprofessional work opportunities. These

Education opportunities include internships and cooperative education (CO-OP) programs. For both of these programs students must first successfully complete the Basic Business Core.

- Graduate College

- Honors College

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Cooperative Education: CO-OP opportunities are coordinated and supervised through Career Services. If a full-time CO-OP work experience is done during a regular semester, students will need to take classes in a summer session.

Internships: Internships may involve part-time work during the academic year, or summer work. The time required of an internship and whether or not it is a paid experience depends on the employer.

Credit may be available for demonstrated academic learning in relation to a preprofessional work experience. A faculty member in each area of business will be designated each semester to work with students and grade the written assignments. To enroll for credit, students must have a minimum of junior standing, completion of Basic Business Core, a related Business Field Course with a grade of B, and a cumulative grade-point average of 3.0. If these requirements are met, students should talk with the assigned faculty member in their field of study to discuss the written assignments required for credit and to obtain approval. Once the internship is approved, students must enroll in BSAD 194 to receive internship credit. Business students may not earn Business practicum or internship credit through other academic units.

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## The Rubenstein School of Environment and Natural Resources (RSENR)

### Contact Information

*The University of Vermont  
The Rubenstein School of Environment and Natural Resources  
George D. Aiken Center  
81 Carrigan Drive  
Burlington, VT 05405-0088*

Phone: (802) 656-4280  
Fax: (802) 656-8683  
Email: [envnr@uvm.edu](mailto:envnr@uvm.edu)

[Web Site](#)

### Overview

In The Rubenstein School, excitement for discovery and a commitment to lifelong learning are central. Our emphasis on the integration of natural science and cultural perspectives reflects the interdisciplinary context in which ecosystem management, resource planning, and environmental concerns must be addressed. We believe that there is a strong interplay between teaching and scholarship and that each is vital to the other.

The Rubenstein School seeks to cultivate an appreciation and enhanced understanding of ecological and social processes and values aimed at maintaining the integrity of natural systems and achieving a sustainable human community. We pursue this goal by generating and broadly disseminating knowledge and by challenging students,

### In this College

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- [The Rubenstein School of Environment and Natural Resources Aiken Scholars Program](#)
- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [The Rubenstein School of Environment and Natural Resources Undergraduate Internships](#)

- Education  
colleagues, and citizens to acquire knowledge, skills, and values to become innovative, environmentally responsible, and accountable leaders.
- Graduate College  
We are actively committed to diversity biodiversity in natural communities and cultural diversity in human communities. Individual and professional responsibility, as well as scholastic excellence, are emphasized within the School's supportive atmosphere.
- Honors College  
Faculty members are conscientious advisors, and students communicate frequently with them for guidance in clarifying educational, career, and personal goals. While these programs prepare students for a variety of positions in natural resources and the environment, graduates are also well prepared to pursue careers or advanced study in other professions.
- School of Business Administration  
The Office of the Dean of the School is located in the George D. Aiken Center for Natural Resources.
- **The Rubenstein School of Environment and Natural Resources**

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- [Environmental Studies \[RSENR\] \(B.S.\)](#)
- [Forestry \(B.S.\)](#)
- [Natural Resources: Integrated Natural Resources \(B.S.\)](#)
- [Natural Resources: Resource Ecology \(B.S.\)](#)
- [Natural Resources: Resource Planning \(B.S.\)](#)
- [Recreation Management: Private Outdoor Recreation and Tourism \(B.S.\)](#)
- [Recreation Management: Public Outdoor Recreation \(B.S.\)](#)
- [Wildlife and Fisheries Biology: Fisheries Biology \(B.S.\)](#)
- [Wildlife and Fisheries Biology: Wildlife Biology \(B.S.\)](#)

### Undergraduate Minor (Minor)

- [Environmental Studies \[RSENR\] \(Minor\)](#)
- [Forestry \(Minor\)](#)
- [Recreation Management \(Minor\)](#)
- [Wildlife Biology \(Minor\)](#)





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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Academic Offerings > Environmental Sciences [RSENR] (B.S.)

## Environmental Sciences [RSENR] (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses: [BCOR 011/BCOR 012](#); [CHEM 031/CHEM 032](#); [CHEM 042<sup>1</sup>](#); [GEOL 55](#) or [PSS 161](#); [MATH 019/MATH 020<sup>2</sup>](#); [NR 140<sup>2</sup>](#) or [STAT 141](#); [ENSC 001](#), [ENSC 101](#), [ENSC 130](#), [ENSC 185](#), [ENSC 201](#), [ENSC 202](#); 14-17 credits in one of the following Focus Tracks: Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources. Up-to-date course requirements for each Focus Track are available from your advisor or the Dean's Office; students may elect to petition to develop a self-design track.

1. Students interested in areas such as environmental analysis and assessment should consider taking more advanced courses, such as [CHEM 141/CHEM 142](#).
2. Also fulfills RSENR general education requirement.

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#). [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).
- Departments and Programs: [Environmental Sciences Program](#).

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Academic Offerings > Environmental Studies [RSEN] (B.S.)

## Environmental Studies [RSEN] (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses: [ENVS 1](#), [ENVS 2](#), [ENVS 151](#), [ENVS 201](#), [ENVS 202](#); 30 hours of approved environmentally-related courses\* at the 100 or 200 level, including three hours at the 200 level, with at least one course in each of four areas: environmentally-related natural sciences, humanities, social sciences, and international studies (may be fulfilled by a study abroad experience).

\*These courses are in addition to the RSEN core and general education requirements.

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Academic Offerings > Forestry (B.S.)

## Forestry (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

Students supplement a core of required Forestry and related courses with a student-proposed, faculty-approved area of concentration<sup>1</sup> such as forest ecosystem health, forest ecology, consulting forestry, public forest administration, or international development. The concentration represents at least 12 credit hours and may be self-designed<sup>2</sup>, an appropriate University minor, or a natural resource oriented study abroad experience.

A total of 126 credits are required for the degree.

Required courses: [BOT 4](#); [CHEM 23](#); [MATH 18](#)<sup>3</sup>; [NR 25](#), [NR 140](#)<sup>3</sup>, [NR 224](#); [PSS 161](#); [FOR 21](#), [FOR 73](#), [FOR 81](#)<sup>4</sup>, [FOR 121](#), [FOR 122](#)<sup>5</sup>, [FOR 158](#), [FOR 182](#), [FOR 223](#), [FOR 272](#); a course in forest health<sup>6</sup>; 12 additional credits in area of concentration.

<sup>1</sup> Must be endorsed by the student's advisor and approved by the Forestry faculty prior to the last four semesters of study.

<sup>2</sup> At least 9 credits are to be at the 100-level or higher.

<sup>3</sup> Also fulfills RSENR general education requirement.

<sup>4</sup> Transfer students with 45 or more credit hours are exempt from [FOR 81](#).

Education

<sup>5</sup> Field intensive course offered **only** during the summer session.

• Graduate College

<sup>6</sup> Currently can be fulfilled with either [FOR 234](#) - Forest Pathology or [PSS 107](#) - Forest Entomology

• Honors College

• School of Business Administration

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Academic Offerings > Natural Resources: Integrated Natural Resources (B.S.)

## Natural Resources: Integrated Natural Resources (Bachelor of Science)

### Overview

Integrated Natural Resources (INR) is a self-designed major. INR is the right choice for students who have strong interests in natural resources and the environment, clear academic direction, and the motivation to develop a well-focused, personally meaningful course of study. Working closely with a faculty advisor, the student builds on a solid foundation of natural resources courses to create an individualized program that combines course work from disciplines within and outside the School.

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses (minimum nine credits): Students elect from a list of approved courses at least one course in each of three areas - biology/ecology; NR courses in social sciences and communications; and quantitative and analytical methods. These courses are in addition to those taken to fulfill RSENR general education requirements.

### Individualized Program of Study Option (minimum 39 credits)

The student develops an individualized Program of Study composed primarily of intermediate-level Environment and Natural Resources courses (ENVS, ENSC, FOR, NR, RM or WFB prefix). This may include no more than 15 credits outside the School

- Education
- Graduate College
- Honors College
- School of Business Administration
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and no more than 6 credits below the 100-level. With careful selection of courses, students develop concentrations such as Environmental Education, Resource Management, Resource Conservation, International Resource Issues, and Spatial Analysis of Natural Resources. All programs of study must be endorsed by the advisor, then approved by the faculty. If not approved, the student may not continue in the INR option and must seek another major. The program of study is to be completed by the end of the sophomore year (60 credits). Transfer students with more than 60 credits must have a program of study approved as part of the transfer application. It is expected that transfer students will be active in the program for at least two years (four semesters) after transferring into the INR option. Any course substitution request must be approved prior to the end of the add/drop period for the semester in which the student enrolls in the substitute course.

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## Natural Resources: Resource Ecology (Bachelor of Science)

### Overview

The Resource Ecology curriculum explores the biology and ecology of plants and animals in both aquatic and terrestrial systems and allows students to select courses around specific individual interests.

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses: [BIOL 1](#), [BIOL 2](#); [GEOL 1](#) or [PSS 161](#); \*[MATH 19](#); \*[NR 140](#); [CHEM 23](#) or [CHEM 31](#), [CHEM 32](#); [CHEM 26](#) or [CHEM 42](#) or [CHEM 141](#), [CHEM 142](#); [NR 25](#); [NR 143](#) or [FOR 146](#); 27 additional credits in Option Electives to be chosen from approved list in consultation with student's academic advisor. Any course substitution request must be approved **prior the end of the add/drop period** for the semester in which the student enrolls in the substitute course.

\* Also fulfills RSENR general education requirement.

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## Natural Resources: Resource Planning (Bachelor of Science)

### Overview

The Resource Planning curriculum explores interactions among individuals, communities, and society with nature, resources, and the environment. It allows students to select courses around specific individual interests such as natural resource planning and community, policy and economic dimensions of resource planning, and international dimensions of resource planning.

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses: [PSYC 1](#); [CDAE 2](#); [POLS 21](#) or [POLS 41](#); [SOC 1](#) or [SOC 11](#); [PHIL 4](#) or [CDAE 156](#); [ANTH 21](#) or [GEOG 1](#); [EC 11](#), [EC 12](#) or [CDAE 61](#). 27 additional credits in Option Electives to be chosen from approved list in consultation with student's academic advisor. Any course substitution request must be approved **prior to the end of the add/drop period** for the semester in which the student enrolls in the substitute course.

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## Recreation Management: Private Outdoor Recreation and Tourism (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [Recreation Management Core Courses](#)

### Specific Requirements

Required courses: [RM 1](#), [RM 50](#), [RM 157](#), [RM 158](#), [RM 191](#), [RM 230](#), [RM 258](#); three courses selected from [RM 138](#), [RM 153](#), [RM 235](#), [RM 240](#), [RM 255](#); and nine additional credits of professional electives to be chosen in consultation with an advisor.

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## Recreation Management: Public Outdoor Recreation (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [Recreation Management Core Courses](#)

### Specific Requirements

Required courses: [RM 1](#), [RM 138](#), [RM 153](#), [RM 191](#), [RM 235](#), [RM 240](#), [RM 255](#); three courses selected from [RM 50](#), [RM 157](#), [RM 158](#), [RM 230](#), [RM 258](#); and nine additional credits of professional electives to be chosen in consultation with an advisor.

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## Wildlife and Fisheries Biology: Fisheries Biology (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [Wildlife and Fisheries Biology Core Requirements](#)

### Specific Requirements

Required courses: [PHYS 11/PHYS 21](#) or [PHYS 12/PHYS 22](#) or [PHYS 96](#), Green Mountain Physics; [WFB 232](#); [NR 250](#); [NR 260/WFB 272](#); [NR 270](#) or [WFB 279](#); six additional hours selected from [NR 270](#), [NR 280](#), [BIOL 264](#), [BOT 234](#), [WFB 271](#), [WFB 279](#), [WFB 286](#).

### Affiliations

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## Wildlife and Fisheries Biology: Wildlife Biology (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [Wildlife and Fisheries Biology Core Requirements](#)

### Specific Requirements

Required courses: [FOR 21](#); [WFB 130](#), [WFB 131\\*](#), [WFB 150\\*](#); [BOT 109](#); [BIOL 217](#); three courses (one must have a lab) selected from [NR 224](#); [WFB 185](#), [WFB 271/WFB 272](#), [WFB 273/WFB 274](#), [WFB 275](#), or [WFB 279](#).

\* Field intensive courses offered only during the summer session.

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#).
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## Environmental Studies [RSENR] (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

The minor requires 17 credits of Environmental Studies courses consisting of [ENVS 001](#), [ENVS 002](#), and nine credits at the 100-level or above, including three hours at the 200-level. Of the nine credits, one non-ENVS course at the appropriate level may be substituted with approval of the student's advisor and the Environmental Program.

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#), [College of Agriculture and Life Sciences](#), [College of Arts and Sciences](#).
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## Forestry (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

Applications for the minor must be filed no later than June 1 of the year preceding graduation. A minimum of 16 credit hours is required, with at least nine at the 100-level or higher.

Required courses: [FOR 1\\*](#) or [FOR 73](#); [FOR 21](#); additional FOR courses to total 16 credits.

\* Students in the The Rubenstein School may not count FOR 1 towards completion of a Forestry minor.

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#).
- Departments and Programs: [Forestry Program](#).

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Academic Offerings > Recreation Management (Minor)

## Recreation Management (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School of Environment and Natural Resources does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

The minor requires a planned course of study which will provide a substantive introduction into the field of recreation management. Interested students should contact the Program Chair. A total of 15 credit hours are required. A minimum of nine credits are to be selected from [RM 1](#), [RM 50](#), [RM 138](#), [RM 153](#), [RM 157](#), [RM 158](#). A minimum of six credits are to be selected from [RM 230](#), [RM 235](#), [RM 240](#), [RM 255](#), [RM 258](#).

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#).
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## Wildlife Biology (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School of Environment and Natural Resources does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

Applications for the minor must be filed no later than June 1 of the year preceding graduation or of the completion of the requirements for the minor. A minimum of 15 credit hours is required in prescribed and elective courses. Required courses: [WFB 130](#), [WFB 174](#); [WFB 271](#) or [WFB 273](#). Elective courses: [WFB 131](#), [WFB 150](#), [WFB 176](#), [WFB 177](#), [WFB 185/WFB 186](#), [WFB 187/WFB 188](#), [WFB 271](#), [WFB 272](#), [WFB 273](#), [WFB 274](#), [WFB 275](#), [WFB 279](#), [WFB 285/WFB 286](#), [WFB 287/WFB 288](#); [NR 224](#).

### Affiliations

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Departments and Programs > Environmental Program

## Environmental Program


### Contact Information

*University of Vermont  
Environmental Program  
Bittersweet  
153 South Prospect St.  
Burlington, VT 05401*

Phone: (802) 656-4055  
Fax: (802) 656-8015  
Email: [Elizabeth.Getchell@uvm.edu](mailto:Elizabeth.Getchell@uvm.edu)

[Web Site](#)

### Overview

Environmental Studies is a University-wide undergraduate environmental curricular option directed by the Environmental Program in cooperation with four colleges and professional schools. This option is one of UVM's most distinctive and popular academic programs  unique nationally in its breadth and interdisciplinary nature.

Students entering UVM may apply for admission to Environmental Studies through several of the undergraduate divisions. Choice of the appropriate college or school will depend on the individual's interests, career and educational objectives.

The Environmental Program involves students and faculty from throughout the University, as well as community professionals, recognizing that study of the environment must draw upon all academic disciplines and professional fields. The activities of the Program include undergraduate education, research, and community service programs dedicated to the study and improvement of the cultural and natural environments

### In This Department

- [Academic Offerings](#)
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Education essential to the quality of life on earth.

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

The Program serves a wide range of environmental interests, with its primary mission being undergraduate education, and its primary focus the individual student. Working closely with the faculty, each student plans an individualized program that combines a broad, comprehensive understanding of the environment with depth in a specific concentration of study. Major concentrations can be in the natural sciences, the humanities, the social sciences, or broadly interdisciplinary around a specific focus.

Many graduates continue their education in graduate or professional schools; others work in public and private sectors in highly diverse fields throughout Vermont, the nation, and in countries around the globe.

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Policies and General Information

Students enrolled in Early Childhood, Elementary Education and Physical Education may complete the major concentration in Environmental Studies as a fulfillment of the liberal arts and sciences major requirement. Environmental Studies is not a Vermont State Department of Education approved endorsement area for Secondary Education.

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Faculty and Administration

Program offices and a Student Services Center are located in The Bittersweet Building, where students are encouraged to visit with the staff and faculty regarding their academic plans, to gain assistance with research or action projects, and to seek information about academic programs, internships, international study opportunities, graduate studies, and future careers.

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## Environmental Studies [RSENR] (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses: [ENVS 1](#), [ENVS 2](#), [ENVS 151](#), [ENVS 201](#), [ENVS 202](#); 30 hours of approved environmentally-related courses\* at the 100 or 200 level, including three hours at the 200 level, with at least one course in each of four areas: environmentally-related natural sciences, humanities, social sciences, and international studies (may be fulfilled by a study abroad experience).

\*These courses are in addition to the RSENR core and general education requirements.

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#). [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).
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## Environmental Studies [RSENR] (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

The minor requires 17 credits of Environmental Studies courses consisting of [ENVS 001](#), [ENVS 002](#), and nine credits at the 100-level or above, including three hours at the 200-level. Of the nine credits, one non-ENVS course at the appropriate level may be substituted with approval of the student's advisor and the Environmental Program.

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#), [College of Agriculture and Life Sciences](#), [College of Arts and Sciences](#).
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## Courses in Environmental Studies

### ENVS 001 - Intro to Environmental Studies

Survey of environmental studies examining ecological, socioeconomic, aesthetic, and technological influences determining quality of life on earth. Prerequisite: First-year/Sophomore standing or Instructor permission.

Credits: 4.

### ENVS 002 - Internat'l Environmental Stds

A multidisciplinary analysis of the interaction of global and local variables in understanding and solving pervasive environmental problems. Prerequisite: First-year or sophomore standing.

Credits: 4.

### ENVS 007 - Environmental Awareness

Selected current environmental issues from evolving political, religious, scientific, and social perspectives. For non-majors. Cannot receive credit for both ENVS 001 and ENVS 007

Credits: 3.

### ENVS 095 - Special Topics

Introductory courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural areas management.

Credits: 1-4.

### ENVS 096 - Special Topics

Credits: 1-3.

### ENVS 100 - Environmental Theory

Comparative analysis of emerging concepts of human/environment relationships;

Education the history, philosophy, and theoretical framework of environmental studies.  
Prerequisites: 1,2.

• Graduate College Credits: 3.

• Honors College **ENVS 151 - Intermed Environmental Studies**

Individual investigation of interdisciplinary areas of environmental studies with emphasis on academic and career choices and preparation for senior thesis/project. Prerequisites: Major in Environmental Studies; 1, 2; permission.  
Credits: 3.

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

**ENVS 152 - Environment Information Skills**

age by teaching information concepts, skills, and broad ranging resources.  
Prerequisite: ENVS 151, or concurrently enrolled in ENVS 151.  
Credits: 1.

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Policies and General Information

**ENVS 156 - Permaculture**

productive environments that have the diversity, stability, and resilience of the natural biosphere to harmoniously integrate landscape and people. Prerequisite: Three hours basic biological or ecological science, or permission.  
Credits: 2.

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Faculty and Administration

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Catalogue Archives

**ENVS 166 - Environmental Hst of N America**

Examination of human-environmental interaction on the North American continent over the past five hundred years. Pre/co-requisite: Three hours History. Cross-listed with: HST 166.  
Credits: 3.

**ENVS 173 - Landscape Natural History**

This field-based course examines patterns and processes on local landscapes from an interdisciplinary perspective, with an emphasis on geology, soil science, plant ecology, Sophomore standing.  
Credits: 3.

**ENVS 174 - Nat Areas Conservation&Steward**

Prerequisites: ENVS 001, NR 001, or Instructor permission.  
Credits: 3.

**ENVS 177 - Intro to Landscape Restoration**

Introduction to the history, philosophical foundations, and approaches to restoration of natural landscapes damaged by human activity and neglect. Case studies of selected local sites. Prerequisite: ENVS 001, NR 001, or Instructor permission.  
Credits: 3.

**ENVS 178 - Environmental Ethics**

Current approaches and problems in environmental ethics drawing on philosophy and case studies in animal rights, land ethics, deep ecology, wilderness protection, and human rights. Prerequisite: One environmental course; Junior standing.  
Credits: 0-3.



**ENVS 179 - Ecofeminism**

Investigation of the parallel dominations of women and nature, through analysis and reflection on ecofeminist theory, activism, and spirituality. Prerequisite: ENVS 001, ENVS 002 or WGST 073; Sophomore standing. Cross-listed with: WST 179. Credits: 3.

**ENVS 180 - Radical Environmentalism**

Survey of radical environmental philosophy and activism from a liberation ethics perspective. Includes deep ecology, ecofeminism, environmental justice, and ecological resistance movements around the world. Prerequisite: ENVS 001, ENVS 002; Sophomore standing. Credits: 3.

**ENVS 181 - Strategic Environmental Leadership**

Theory and analysis of strategic environmental leadership as it varies with culture, ethnicity, and gender. Prerequisites: 1, 2, junior standing, permission of instructor. Credits: 1.

**ENVS 182 - Religion and Ecology**

Exploration of the greening of major world religious traditions in both practice and philosophy. Includes institutional, activist, and lifestyle initiatives in ecological spirituality. Prerequisites: ENVS 001 NR 002, REL 020 or REL 021 preferred; Sophomore standing. or ENVS 002; or Credits: 3.

**ENVS 190 - Environmental Skills**

Workshops to develop applied skills useful for environmental work and/or research. Topics vary by semester. Prerequisite: ENVS 001, ENVS 002. Credits: 1-3.

**ENVS 191 - Environmental Practicum**

Individual readings and research, internship, or field-based learning experience under direction of a faculty member or environmental practitioner. Credit arranged. Prerequisite: Permission of course coordinator. Credits: .5-9.

**ENVS 195 - Special Topics**

Intermediate courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course; Sophomore standing. Credits: 1-6.

**ENVS 196 - Special Topics**

Intermediate courses of current areas of interest which vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course; Sophomore standing.

Credits: 1-6.

**ENVS 197 - Student Designed Course**

Course Student-taught courses beyond the scope of existing formal courses in environmental studies. Developed according to Program guidelines, with sponsorship by interested faculty. Prerequisites: 1, 2, permission.

Credits: 1-3.

**ENVS 201 - Research Methods**

(Not offered for graduate credit.) Planning, design, and methods for the required senior thesis or project. Includes literature review and proposal writing.

Prerequisites: 151, junior standing.

Credits: 3.

**ENVS 202 - Senior Project and Thesis**

Senior level project or thesis under faculty direction. Prerequisites: 201, permission of Environmental Program. Credits arranged. (Not offered for graduate credit.)

Credits: 1-9.

**ENVS 203 - Honors Thesis**

Undergraduates only.

Credits: 1-9.

**ENVS 204 - Seminar Environmental Studies**

Review and discussion of current environmental research and literature.

Prerequisites: 1, 2, junior or senior standing. (Not offered for graduate credit.)

Credits: 1-3.

**ENVS 284 - Teaching Assistantship**

in ENVS course. Variable credit. May be repeated. UG only. Students gain practical teaching experience through assisting with instruction, evaluation, and reflection. Tasks may include: leading discussion sessions, grading, and developing course materials. Prerequisites: Senior standing or permission of instructor, concurrent teaching assistant

Credits: 1-2.

**ENVS 289 - Environmental Economics**

Application of economic theory and methods to environmental problems and policies. Includes cost-benefit analysis and economic incentives as tools for environmental problem solving. Prerequisites: 1, three hours intermediate economics. For students in Arts and Sciences: Economics 11-12, intermediate course in ENVS. UG only.

Credits: 3.

**ENVS 290 - Environmental Policy**

Public policy dimensions of natural resource management and environmental protection; U.S. historical context; policy analyses of contemporary issues; administration of environmental resource institutions. Prerequisites: Six hours of

intermediate or advanced courses in ENVS or related areas. UG only.

Credits: 3.

**ENVS 291 - Advanced Environmental Pract**

Individual readings and research, internship, or field-based learning experience at the advanced level, under direction of faculty member or environmental practitioner. Prerequisite: ENVS 001, ENVS 002; Senior/Graduate standing.

Credits: 1-12.

**ENVS 293 - Environmental Law**

Principles of environmental law, including legal research methods, threshold issues, case law, trial procedure, and international comparisons in aspects of air, land, and water law. Prerequisite: Junior standing.

Credits: 3.

**ENVS 294 - Environmental Education**

Philosophy, concepts, and strategies of environmental education, emphasizing integration of environmental concerns into formal and nonformal educational programs for youth and adults. Prerequisite: Six hours of intermediate or advanced courses in Environmental Studies or related areas.

Credits: 3.

**ENVS 295 - Advanced Special Topics**

Advanced courses of current areas of interest which may vary each semester. Topics have included environmental health, energy, regional planning, international studies, literature, ethics, and natural area management. Prerequisite: One environmental course at 100 level; Junior standing.

Credits: 0-6.

**ENVS 296 - Advanced Special Topics**

junior standing. UG only.

Credits: 1-6.

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## Environmental Sciences Program

### Contact Information

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*College of Arts and Sciences*

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*Phone: (802) 656-4057*

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*Email: [Alan.McIntosh@uvm.edu](mailto:Alan.McIntosh@uvm.edu)*

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*College of Agriculture and Life Sciences*

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[Web Site](#)

### Overview

Integrated across the College of Agriculture and Life Sciences (CAL S), the College of Arts and Sciences (CAS), and The Rubenstein School of Environment and Natural Resources (RSENR), the B.S. degree program in Environmental Sciences (ENSC) draws from a breadth of scientific inquiry on the environment that reflects the diversity of this naturally multidisciplinary endeavor. All ENSC majors receive a strong foundation in the basic sciences coupled with an in-depth exposure to and experience in today's environmental sciences. This prepares our students to successfully compete in the environmental sciences job market as well as continue their education in the

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Education environmental sciences or a related field.

• Graduate College

• Honors College

• School of Business Administration

• The Rubenstein School of Environment and Natural Resources

All students take a common set of Foundation and Prerequisite courses in Biology, Chemistry, Mathematics, and Geology or Plant and Soil Science. A common set of Environmental Science Core courses is followed by specialization in one of nine focus areas (Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources.)

Each unit has a unique perspective on the discipline, and students are free to explore the environmental sciences within a context that best fits their interests and future plans:

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- In the College of Agriculture and Life Sciences, faculty research has a strong orientation toward applied environmental problems, not only in agricultural settings but also in the disciplines of plant biology, microbiology, soil science and international development. Students are engaged in experiential learning and hands-on research. Graduates have attained positions with environmental consulting firms, government and non-government environmental organizations, or continued with further education in a variety of fields.
- In the College of Arts and Sciences, the environmental sciences serve as a hub for a broad-based liberal arts education. Drawing from traditional science disciplines, such as Biology, Chemistry and Geology, this interdisciplinary degree program aims to develop in students the analytical skills and scientific background necessary for understanding the environment and environmental problems. By participating in active research programs involved in studying environmental problems, students are able to integrate and apply fundamental scientific inquiry with application to problems of environmental importance.
- In The Rubenstein School of Environment and Natural Resources, an in-depth knowledge of the environmental sciences is coupled with a familiarity with the social/policy aspects of environmental issues in order to analyze and solve problems caused by human impacts on the environment. Blending hands-on field and laboratory instruction with real-world environmental internship, research, and study abroad opportunities, students acquire the skill set needed to tackle complex environmental problems. With the school's emphasis on such cutting-edge areas as ecological design, restoration of damaged ecosystems and environmental risk assessment, RSENR graduates are equipped with the latest tools to protect our woods, waters and landscapes.

## Affiliations

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## Environmental Sciences Program: Academic Offerings

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## Environmental Sciences [RSENR] (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses: [BCOR 011/BCOR 012](#); [CHEM 031/CHEM 032](#); [CHEM 042<sup>1</sup>](#); [GEOL 55](#) or [PSS 161](#); [MATH 019/MATH 020<sup>2</sup>](#); [NR 140<sup>2</sup>](#) or [STAT 141](#); [ENSC 001](#), [ENSC 101](#), [ENSC 130](#), [ENSC 185](#), [ENSC 201](#), [ENSC 202](#); 14-17 credits in one of the following Focus Tracks: Agriculture and the Environment, Conservation Biology and Biodiversity, Ecological Design, Environmental Analysis and Assessment, Environmental Biology, Environmental Chemistry, Environmental Geology, Environmental Resources, Water Resources. Up-to-date course requirements for each Focus Track are available from your advisor or the Dean's Office; students may elect to petition to develop a self-design track.

1. Students interested in areas such as environmental analysis and assessment should consider taking more advanced courses, such as [CHEM 141/CHEM 142](#).
2. Also fulfills RSENR general education requirement.

### Affiliations

- Colleges and Schools: [The Rubenstein School of Environment and Natural Resources](#). [College of Agriculture and Life Sciences](#). [College of Arts and Sciences](#).
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## Courses in Environmental Sciences

### ENSC 001 - Intro Environmental Sciences

Emphasizes the impacts of human activity on the environment. Attention to resources at risk and pollutant fate and effects on ecosystems.

Credits: 3.

### ENSC 101 - Pollutant Mvmt/Air, Land & Water

Physical, chemical, and biological aspects of pollutant behavior from source to ultimate fate. Laboratory methodologies for measuring pollutants and predicting their transport, behavior, and fate. Prerequisites: 1; Biology 1, 2; Chemistry 31, 32; Math. 19, 20; co-requisite Chemistry 42.

Credits: 4.

### ENSC 130 - Global Environmental Assessment

Assessment of human impacts on the global environment. Hands-on application of satellite remote sensing and geographic information systems to address key environmental issues. Prerequisite: BIOL 001 or BOT 004, CHEM 023, or equivalent, MATH 019.

Credits: 3.

### ENSC 185 - Special Topics

See Schedule of Courses for specific titles. Variable credit.

Credits: 1-12.

### ENSC 195 - Internship

Professionally-oriented field experience under joint supervision of faculty and business or community representative. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing; Maximum of six hours. Three can be applied to elected concentration with Director permission.

Credits: 1-6.

Education

- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

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**ENSC 196 - Independent Research**

Special study and research activity under the directory of a faculty member. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing. Up to six hours. Three can be applied to elected concentration with Director permission.  
Credits: 1-6.

**ENSC 201 - Recovery&Restor Altered Ecosys**

Role of stress and disturbance and the natural process of recovery in aquatic and terrestrial ecosystems. Human efforts to modify, restore, and remediate altered ecosystems. Prerequisites: Natural Resources 103 or an intermediate-level ecology course; or instructor's permission. Environmental Sciences 101 strongly recommended.  
Credits: 3.

**ENSC 202 - Ecological Risk Assessment**

Approaches used to identify, measure, and manage ecological risk. Problem formulation, characterization, uncertainty analysis, and risk management. Case studies. Prerequisite: ENSC 201, NR 140 or STAT 141; Senior standing, or Instructor permission.  
Credits: 3.

**ENSC 222 - Pollution Ecology**

Impacts of pollutants on the structure and function of ecosystems. Examination of how air, land, and water influence ecological fate and effects of pollutants. Prerequisites: Biology 1; Chemistry 23, Natural Resources 103 or equivalent ecology course. (Not offered for graduate credit.)  
Credits: 3.

**ENSC 285 - Adv Special Topics ENSC**

See Schedule of Courses for specific titles. Prerequisites: Senior standing or instructor's permission. Variable credit. (Not offered for graduate credit.)  
Credits: 1-12.

**ENSC 299 - Environmental Sciences Honors**

Prerequisites: By application only; see program chair. Honors project dealing with environmental sciences.  
Credits: 3-6.

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## Forestry Program

### Contact Information

*University of Vermont  
The Rubenstein School of Environment  
and Natural Resources  
Forestry Program  
George D. Aiken Center  
81 Carrigan Drive  
Burlington, VT 05405*

Phone: (802) 656-2511

Fax: (802) 656-8683

Email: [John.Shane@uvm.edu](mailto:John.Shane@uvm.edu)

[Web Site](#)

### Overview

The Forestry major provides students with an education in ecologically responsible forestry, emphasizing the complex landscapes of the northeastern United States. Students develop their abilities to coordinate and manage all aspects of sustainable forestry through an education that combines a strong foundation in natural and social sciences with hands-on field-based classes, internships, research experiences, and forest management projects. The curriculum is integrative, technologically current, and science-based.

### Affiliations

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## Forestry (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

Students supplement a core of required Forestry and related courses with a student-proposed, faculty-approved area of concentration<sup>1</sup> such as forest ecosystem health, forest ecology, consulting forestry, public forest administration, or international development. The concentration represents at least 12 credit hours and may be self-designed<sup>2</sup>, an appropriate University minor, or a natural resource oriented study abroad experience.

A total of 126 credits are required for the degree.

Required courses: [BOT 4](#); [CHEM 23](#); [MATH 18](#)<sup>3</sup>; [NR 25](#), [NR 140](#)<sup>3</sup>, [NR 224](#); [PSS 161](#); [FOR 21](#), [FOR 73](#), [FOR 81](#)<sup>4</sup>, [FOR 121](#), [FOR 122](#)<sup>5</sup>, [FOR 158](#), [FOR 182](#), [FOR 223](#), [FOR 272](#); a course in forest health<sup>6</sup>; 12 additional credits in area of concentration.

<sup>1</sup> Must be endorsed by the student's advisor and approved by the Forestry faculty prior to the last four semesters of study.

<sup>2</sup> At least 9 credits are to be at the 100-level or higher.

<sup>3</sup> Also fulfills RSENR general education requirement.

<sup>4</sup> Transfer students with 45 or more credit hours are exempt from [FOR 81](#).

Education

<sup>5</sup> Field intensive course offered **only** during the summer session.

• Graduate College

<sup>6</sup> Currently can be fulfilled with either [FOR 234](#) - Forest Pathology or [PSS 107](#) - Forest Entomology

• Honors College

• School of Business Administration

### Affiliations

• The Rubenstein School of Environment and Natural Resources

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## Forestry (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

Applications for the minor must be filed no later than June 1 of the year preceding graduation. A minimum of 16 credit hours is required, with at least nine at the 100-level or higher.

Required courses: [FOR 1\\*](#) or [FOR 73](#); [FOR 21](#); additional FOR courses to total 16 credits.

\* Students in the The Rubenstein School may not count FOR 1 towards completion of a Forestry minor.

### Affiliations

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## Courses in Forestry

### FOR 001 - Forest Conservation

goals, and silvicultural practices. Cannot be taken by Introduction to the ecology and management of American forests: forest distribution, ownership, and ecological factors, species interactions, multi-resource management  
Junior/Senior-level RSENR students.

Credits: 3.

### FOR 021 - Dendrology

Classification, silvical characteristics, and identification features of native and introduced trees and shrubs.

Credits: 4.

### FOR 073 - Small Woodland Management

Concepts of forest ecology, resource inventory, cultural practices, and multiple use management for small woodland areas.

Credits: 3.

### FOR 081 - Forestry Seminar

forestry. Prerequisite: First-Year/Sophomore standing in Natural Resources.

Credits: 1.

### FOR 120 - Forest Ecology

Forest environment and its effects on the development and distribution of forest communities. Introduction to population dynamics, systems and analysis, diversity, stability, ecosystem disturbances, and succession. Prerequisite: NR 001, or another introductory Biological Science course. Not offered 2001-02.

Credits: 3.

### FOR 121 - Forest Ecology Laboratory

- Education  
Application of ecological principles in the analysis of forest communities.  
Prerequisite: NR 025; a course in tree identification; previous or concurrent enrollment in NR 103.  
Credits: 2.
- Graduate College
  - Honors College
  - School of Business Administration
  - The Rubenstein School of Environment and Natural Resources

**FOR 122 - Forest Ecosystem Analysis**

An integrated field course to investigate, through quantification and interpretation, the flora, fauna, and abiotic components (soils, physiography, water, and microclimate) of a selected forest ecosystem. Prerequisite: FOR 121, NR 140.  
Credits: 4.

**FOR 126 - Forest Ecology Field Trip**

Assessment of southeastern forest ecosystems including Smoky Mountain communities, and upland and bottomland forests of the Georgia Piedmont and South Carolina Coastal Plain. Field trip at end of spring semester. Prerequisite: A course in plant identification; a course in ecology; Instructor permission.  
Credits: 2.

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**FOR 132 - Forest Fire Behavior & Mgmt**

Forest fire ecology, behavior, effects, weather relationships, danger rating, prevention, detection, management, prescribed fire, smoke management, wildland/urban interface, and multi-resource perspectives. Prerequisite: A course in plant ecology or concurrent enrollment; Knowledge of plant identification. Alternate years.  
Credits: 3.

**FOR 133 - Forest Entomology**

(Cross-listed with Plant and Soil Science 107.)  
Credits: 3.

**FOR 146 - Remote Sensing of Natural Res**

resources from aerial photographs and satellite imagery. Cross-listed with: NR 146, GEOG 185. Identification, interpretation, measurement, and mapping of natural Labs include air photo interpretation and digital image analysis. Prerequisites: Junior standing. Alternate years.  
Credits: 3.

**FOR 152 - Forest Resources Values**

History, methods, and current issues associated with the nonmarket and market values of forest-based resources, including aesthetics, wildlife, recreation, water, and as Recreation Management 152).  
Credits: 3.

**FOR 158 - Stewardship: Private Woodlands**

Basic financial, legal and operational aspects for long-term ownership and stewardship of woodlands; appraisals, taxation, land trusts, conservation easements, estate planning; Vermont focus. Prerequisite: Course in Economics.  
Credits: 3.

**FOR 162 - Properties & Uses of Wood**

Properties, uses, and identification of commercial woods of the U.S. Manufacture of major wood products. Prerequisite: A course in tree identification. Alternate years.

Credits: 3.

**FOR 163 - Timber Harvesting**

Private forest emphasis; impacts of alternative techniques on cultural and natural resources; preharvest inventory, prescription, layout, contracts, bookkeeping; postharvest operations. Alternate years.

Credits: 3.

**FOR 182 - Advanced Forestry Seminar**

In-depth examination of contemporary issues in forestry. Prerequisite: Junior/Senior standing in Forestry. Credit arranged.

Credits: 1.

**FOR 185 - Undergrad Special Topics**

Readings, investigations, and lectures in selected forest resource subjects. Prerequisite: Instructor permission. Credit arranged.

Credits: 0-6.

**FOR 191 - Forestry Work Practicum**

Supervised work experience in forest resource area. Prerequisite: Instructor permission. Credit arranged.

Credits: 1-9.

**FOR 205 - Mineral Nutrition of Plants**

Cross-listed with: BOT 205.

Credits: 3.

**FOR 222 - Advanced Silviculture**

Scientific basis and contemporary status of silviculture practices. Prerequisite: FOR 223; permission. Alternate years, 2000-01.

Credits: 3.

**FOR 223 - Multi-Resource Silviculture**

Theory and application of forest stand maintenance/manipulation for forest ecosystem sustainability. Topics: Silvics, regeneration, tree improvement, protection, stand structure/dynamics/tending, and multi-resource perspectives. Prerequisites: NR 25, 103, FOR 121 (FOR 122-Forestry majors). UG only.

Credits: 4.

**FOR 225 - Tree Structure & Function**

Basic anatomy and physiology of trees and other woody plants, emphasizing their unique structural and physiological adaptations to the environment. Prerequisite: Permission.

Credits: 3.

**FOR 228 - Ecosystem Ecology**

Examination of the structure and function of terrestrial ecosystems using a systems approach. Laboratory sessions involve modeling and data analysis.

Prerequisites: Biology 1, 2, Chemistry 23, an intermediate ecology course, Natural Resources 140, Math. 19, Physics 11 or equivalent. Alternate years, 2002-03.

Credits: 2.

**FOR 231 - Integrated Forest Protection**

Integration of concepts of forest protection using a holistic ecological approach to forest pest management. Detection, population dynamics, evaluation, prediction, and pest management considerations. Prerequisite: FOR 133, FOR 234, or Instructor permission. Alternate years, 2001-02.

Credits: 3.

**FOR 234 - Forest Pathology**

An in-depth survey of diseases of forest and shade trees emphasizing identification, morphology, physiology, ecology, epidemiology, genetic relationships, integrated disease management, and multi-resource perspectives.

Prerequisites: Biology 1 & 2, knowledge of plant identification and ecology. UG only.

Credits: 4.

**FOR 272 - Sustainable Mgmt Forest Ecosys**

planning project. Prerequisite: FOR 122, NR 205; Principles of long-term planning and plan implementation in support of sustainable forestry; Adaptive management; biodiversity and ecosystem health; major management concurrent or prior enrollment in FOR 223, or Graduate standing.

Credits: 4.

**FOR 275 - Forest Watershed Management**

Concepts of forest hydrology and forest watershed management; emphasis on natural processes and impacts of quantity, quality, and seasonal distribution of flow from watersheds. Prerequisite: Natural Resources 102, junior standing or permission. (Not offered for graduate credit.)

Credits: 3.

**FOR 285 - Advanced Special Topics**

Advanced special topics courses or seminars in forestry beyond the scope of existing formal courses. Prerequisite: Graduate or advanced undergraduate standing; Instructor permission. Credit as arranged.

Credits: 0-6.

**FOR 291 - Senior Research**

Work on research problem under direction of a staff member. Findings submitted in written form as prescribed by department. Prerequisites: Senior standing, permission. (Not offered for graduate credit.)

Credits: 3.

**FOR 292 - Senior Research**

(Not offered for graduate credit.) Work on research problem under direction of a staff member. Findings submitted in written form as prescribed by department.

Prerequisites: Senior standing, permission.

Credits: 3.

**FOR 299 - Honors**

Honors project dealing with the biology and/or management of forest ecosystems.

Prerequisite: By application only; see program chair. UG only.

Credits: 3-6.

**FOR 382 - Seminar in Research Planning**

Discussions of the planning and activities associated with Graduate student projects and research. Prerequisite: Instructor Permission. Cross-listed with: NR 382.

Credits: 1.

**FOR 385 - Selected Problems in Forestry**

Prerequisite: Instructor permission. Advanced readings, or a special investigation dealing with a topic beyond the scope of existing formal courses.

Credits: 1-6.

**FOR 391 - Master's Thesis Research**

Credits: 1-6.

**FOR 392 - Master's Project Research**

Credits: 1-6.

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## Natural Resources Program

### Contact Information

*University of Vermont  
The Rubenstein School of Environment  
and Natural Resources  
Natural Resources Program  
George D. Aiken Center  
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Burlington, VT 05405*

### Undergraduate

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[Clare.Ginger@uvm.edu](mailto:Clare.Ginger@uvm.edu)*

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### Graduate

*Phone: (802) 656-2511 ☐  
Fax: (802) 656-8683 ☐  
[Deane.Wang@uvm.edu](mailto:Deane.Wang@uvm.edu)*

*[Web Site](#) ☐*

### Affiliations

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## Natural Resources: Integrated Natural Resources (Bachelor of Science)

### Overview

Integrated Natural Resources (INR) is a self-designed major. INR is the right choice for students who have strong interests in natural resources and the environment, clear academic direction, and the motivation to develop a well-focused, personally meaningful course of study. Working closely with a faculty advisor, the student builds on a solid foundation of natural resources courses to create an individualized program that combines course work from disciplines within and outside the School.

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses (minimum nine credits): Students elect from a list of approved courses at least one course in each of three areas - biology/ecology; NR courses in social sciences and communications; and quantitative and analytical methods. These courses are in addition to those taken to fulfill RSENR general education requirements.

### Individualized Program of Study Option (minimum 39 credits)

The student develops an individualized Program of Study composed primarily of intermediate-level Environment and Natural Resources courses (ENVS, ENSC, FOR, NR, RM or WFB prefix). This may include no more than 15 credits outside the School

- Education
- Graduate College
- Honors College
- School of Business Administration
- The Rubenstein School of Environment and Natural Resources

and no more than 6 credits below the 100-level. With careful selection of courses, students develop concentrations such as Environmental Education, Resource Management, Resource Conservation, International Resource Issues, and Spatial Analysis of Natural Resources. All programs of study must be endorsed by the advisor, then approved by the faculty. If not approved, the student may not continue in the INR option and must seek another major. The program of study is to be completed by the end of the sophomore year (60 credits). Transfer students with more than 60 credits must have a program of study approved as part of the transfer application. It is expected that transfer students will be active in the program for at least two years (four semesters) after transferring into the INR option. Any course substitution request must be approved prior to the end of the add/drop period for the semester in which the student enrolls in the substitute course.

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## Natural Resources: Resource Ecology (Bachelor of Science)

### Overview

The Resource Ecology curriculum explores the biology and ecology of plants and animals in both aquatic and terrestrial systems and allows students to select courses around specific individual interests.

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses: [BIOL 1](#), [BIOL 2](#); [GEOL 1](#) or [PSS 161](#); \*[MATH 19](#); \*[NR 140](#); [CHEM 23](#) or [CHEM 31](#), [CHEM 32](#); [CHEM 26](#) or [CHEM 42](#) or [CHEM 141](#), [CHEM 142](#); [NR 25](#); [NR 143](#) or [FOR 146](#); 27 additional credits in Option Electives to be chosen from approved list in consultation with student's academic advisor. Any course substitution request must be approved **prior the end of the add/drop period** for the semester in which the student enrolls in the substitute course.

\* Also fulfills RSENR general education requirement.

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## Natural Resources: Resource Planning (Bachelor of Science)

### Overview

The Resource Planning curriculum explores interactions among individuals, communities, and society with nature, resources, and the environment. It allows students to select courses around specific individual interests such as natural resource planning and community, policy and economic dimensions of resource planning, and international dimensions of resource planning.

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)

### Specific Requirements

A total of 122 credits are required for the degree.

Required courses: [PSYC 1](#); [CDAE 2](#); [POLS 21](#) or [POLS 41](#); [SOC 1](#) or [SOC 11](#); [PHIL 4](#) or [CDAE 156](#); [ANTH 21](#) or [GEOG 1](#); [EC 11](#), [EC 12](#) or [CDAE 61](#). 27 additional credits in Option Electives to be chosen from approved list in consultation with student's academic advisor. Any course substitution request must be approved **prior to the end of the add/drop period** for the semester in which the student enrolls in the substitute course.

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## Courses in Natural Resources

### NR 001 - Natural Hist & Field Ecology

sciences and the application and interpretation of quantitative measurements are presented within a natural history context.

Credits: 4.

### NR 002 - Nature & Culture

Introduction to natural resources and the environment from a social/cultural perspective. Emphasis on environmental history, values, and ethics with application to natural resource and environmental policy.

Credits: 3.

### NR 006 - Race & Culture in NR

Introduces the first-year student to issues of race and culture from a variety of disciplinary perspectives.

Credits: 1.

### NR 025 - Measurements & Mapping

Introduction to surveying, mapping, aerial photo measurements, and interpretation for natural resource planning and management. Prerequisite: A course in high school or college trigonometry; permission required of nonmajors.

Credits: 4.

### NR 051 - Environ Aesthetics & Planning

Examines historical changes in perceptions of natural and built landscapes, the issues involved in the appearance of landscapes today, and techniques for enhancing landscape beauty.

Credits: 3.

### NR 073 - Understanding Water Quality

Education  
• Graduate College  
• Honors College

Introduction to water quality and water pollution in streams, lakes, wetlands, and ground water. Provides foundation for knowledgeable citizen participation in management of public waters. Credit not allowed for both NR 073 and NR 102.  
Credits: 3.

• School of Business Administration

**NR 099 - Aiken Scholars Seminar**

Seminar discussions on current environment issues. Guest speakers and field trips. Prerequisite: Open only to First-Year Aiken Scholars.  
Credits: 1.

• The Rubenstein School of Environment and Natural Resources

**NR 102 - Water as a Natural Resource**

Characteristics of water-sheds, lakes, rivers, and wetlands; discussion of the management of these ecosystems; effects of society on the water resource.  
Prerequisites: Biology 1; Zoology 9 or Botany 4 or equivalent; Chemistry 31, 23, 26, or 42 or equivalent.  
Credits: 3.

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**NR 103 - Ecology, Ecosystems & Environ**

Major ecological concepts and their application. Analysis of form, structure, and function of organisms, populations, communities, ecosystems, and landscapes.  
Prerequisites: 1; concurrent enrollment in 104 and 105 required.  
Credits: 3.

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**NR 104 - Social Proc & the Environment**

Social science theories and their application to environmental issues. Analysis of issues using theories of government, economics, and social movements. Emphasis on integrating frameworks to analyze environmental issues.  
Prerequisite: 2 and concurrent enrollment in 103 and 105 required.  
Credits: 3.

**NR 105 - Environmental Problem Analysis**

Examination of interdisciplinary dimensions of natural resource and environmental problems. Emphasis on social and ecological aspects of environmental issues and interdisciplinary teamwork. Prerequisite: NR 001, NR 002; concurrent enrollment in NR 103 and NR 104.  
Credits: 1.

**NR 107 - The Environment&Human Health**

Interdisciplinary understanding of the effects of anthropogenic factors including pollution, reduced biodiversity, climate change, overpopulation, and resource depletion on the health of natural systems and human course and sophomore standing. (Crosslisted with NH 107).  
Credits: 3.

**NR 130 - Global Environmental Assessmnt**

Cross-listed with ENSC 130.  
Credits: 3.

**NR 140 - Natrl Resources Biostatistics**

Introduction to applied statistical methods for typical natural resources biological problems. Descriptive statistics, hypothesis testing, regression, and sampling design. Emphasis on problem formulation and solution. Prerequisites: Sophomore standing, two years of high school algebra.

Credits: 4.

**NR 143 - Intro to Geog Info Systems**

Understanding and application of computer-based, geographically-referenced information systems. Prerequisites: Junior standing; CS 003 or CS 011.

Credits: 3.

**NR 146 - Remote Sensing of Natural Res**

Cross-listed with: FOR 146, GEOG 185.

Credits: 3.

**NR 153 - Intro Environmental Policy**

Introduction to policy aspects of environment and natural resources including policy processes, public governance, and citizen participation with applications to environmental issues. Pre/co-requisite: NR 104 or POLS 021.

Credits: 3.

**NR 155 - Fluvial Geology**

Cross-listed with: GEOL 155.

Credits: 3.

**NR 170 - Intro Dynamic Simulation Mdlg**

Elementary principles of dynamic simulation modeling and use of the STELLA II dynamic simulation software. Example simulations of natural environmental systems. Prerequisite: Sophomore standing.

Credits: 1.

**NR 176 - Water Quality Analysis**

Selected aspects of elementary water chemistry and bioassay as related to surface and ground waters. Five laboratory experiences. Prerequisite: 176. (2.5 hours lecture per week and 20 hours lab per semester.)

Credits: 3.

**NR 185 - Special Topics**

Special topics in natural resources beyond the scope of existing formal courses. Variable credit.

Credits: 1-6.

**NR 189 - Student-Designed Course Work**

Student-taught course work beyond the scope of formal courses in natural resources. Developed according to RSENR guidelines with sponsorship by interested faculty. Variable

Credits: 1-3.

**NR 199 - Honors Seminar**

A discussion and readings seminar that features guest speakers, and is part of the SNR Spring Seminar Series. Focus of the seminars change annually. Can be repeated. Prerequisite: Sophomore standing; open only to SNR Honors Students.  
Credits: 1.

**NR 205 - Ecosys Mgt:Integ Sci,Soc & Pol**

Integration of natural and social science into ecosystem management and policy. Consideration of ecosystem integrity, ecosystem degradation, human needs and values, and the application of management principles within a holistic context.  
Prerequisites: 1, 2, 103, 104. (Not offered for graduate credit.)  
Credits: 3.

**NR 206 - Env Prob Sol & Impact Assessmt**

Group dynamics, impact assessment, risk assessment, and decision making. Emphasis on the process of solving complex the National Environmental Policy Act. Prerequisites: 1, 2, 103, 104, 205, and statistics. (Not offered for graduate credit.)  
Credits: 4.

**NR 220 - Landscape Ecology**

Study of pattern, process, and dynamics in the landscape. Considers the role of landscape pattern in determining habitat quality and ecosystem function.  
Prerequisites: One Alternate years, 2002-03.  
Credits: 2.

**NR 222 - Pollution Ecology**

(Cross-listed with Environmental Sciences 222.)  
Credits: 3.

**NR 224 - Conservation Biology**

Conservation of biological diversity at genetic, species, ecosystem, and landscape levels. Emphasis on genetic diversity, population viability, endangered species, critical habitats, international implications. Prerequisites: Biology 1, 2; a 100-level ecology course. (Not offered for graduate credit.)  
Credits: 3.

**NR 228 - Ecosystem Ecology**

(Cross-listed with Forestry 228.) UG only.  
Credits: 2.

**NR 235 - Legal Aspects Envir Planning**

Comparison of environmental planning law at local, state, and national levels. Case studies in environmental and natural resource planning and land use controls. Pre/co-requisite: Senior Standing.  
Credits: 3.

**NR 236 - Geochemistry**

(Cross-listed Geology 235.)  
Credits: 3.



**NR 240 - Wilderness & Wilderness Mgmt**

(Cross-listed with Recreation Management 240.)

Credits: 3.

**NR 244 - Quantitative Assmnts of NR**

Credits: 3.

**NR 245 - Advanced Spatial Methods**

Advanced methods in Geographic Information Systems (GIS) and spatial analysis, including the integration of statistics, classical hypothesis testing, and GIS. Pre/co-requisites: senior standing, 1 introductory GIS course, 1 statistics course

Credits: 2.

**NR 250 - Limnology**

Ecology of lakes and reservoirs, including their origin, physics, chemistry and biology, and the effects of anthropogenic perturbations. Field and laboratory experience. Prerequisites: One year Biology; one

Credits: 4.

**NR 252 - Visual Resource Planning & Mgt**

Investigates the theories and principles of aesthetics related to landscape perception, and their applications to visual impact assessment and scenic resource planning. Prerequisite: Senior standing.

Credits: 3.

**NR 254 - Adv Natural Resource Policy**

Advanced seminar in natural resource policy, emphasizing current issues in forest policy. Prerequisite: Graduate or advanced undergraduate standing; Instructor permission.

Credits: 3.

**NR 255 - Field Mthds in Water Resources**

Techniques used in field assessment of water quality in rivers and lakes. Case studies on the LaPlatte River and Lake Champlain. Sampling strategies, field measurements, and data evaluation. Extensive field work. Prerequisite: NR 102 or equivalent basic course in water.

Credits: 3.

**NR 256 - Ecology of a Large Lake**

A field exploration of the littoral zone and deep lake environments and human impacts on large lakes using Lake Champlain as the class laboratory.

Prerequisite: 100-level ecology course.

Credits: 4.

**NR 260 - Wetlands Ecology & Mgmt**

wetlands; wetlands management and issues. Prerequisite: BIOL 001 and BIOL 002; an upper-level ecology course.

Credits: 3.

**NR 261 - Wetlands Ecology Lab**

Credits: 1.

**NR 262 - Int'l Problems in NR Mgmt**

Discussion of problems associated with the management of natural resources which have international implications. Topics may include deforestation, desertification, fisheries, wildlife, refuges, fuelwood, pollution. Prerequisite: Senior standing; permission.

Credits: 3.

**NR 270 - Toxic&Hrzds Subst in Srf Water**

The fate of toxic and hazardous pollutants, including trace elements and organics, in surface waters; effects on human health and aquatic biota. Prerequisite: BIOL 001, CHEM 023, CHEM 042; CHEM 102 or equivalent; Senior standing.

Credits: 3.

**NR 275 - NR Planning: Theory & Methods**

Investigates theoretical development of natural resource planning. Studies planning methods appropriate to protection and use of scenic, recreational, forest, agriculture, and historic resources and ecologically sensitive areas. Prerequisite: Senior standing.

Credits: 3.

**NR 276 - Water Quality Anlys & Interp**

Selected aspects of water chemistry and bioassay as related to surface and ground waters. Laboratory analysis of water quality parameters and data interpretation. Prerequisite: One course in Chemistry, calculus, and Statistics; Senior standing.

Credits: 3.

**NR 278 - Principles of Aquatic Systems**

Study of physical, chemical and biological principles as related to natural aquatic systems. Modeling dynamic behavior of aquatic systems using system simulation techniques. Prerequisite: MATH 019, PHYS 011, CHEM 023, CHEM 026 or equivalent; NR 170 or equivalent or as a co-requisite; Senior standing. Lecture and three hours laboratory per week.

Credits: 3.

**NR 279 - Watershed Management Hydrology**

Fundamental elements of hydrology and contaminant transport in watersheds. Application of dynamic simulation techniques. Discussion of new technologies for watershed management. Prerequisite: NR 170 or equivalent or as a co-requisite; NR 020, PHYS 011, CHEM 023, CHEM 026 or equivalent; Senior standing.

Credits: 3.

**NR 280 - Stream Ecology**

Ecology of streams including hydrodynamics, morphology, sediment transport, chemistry, biology and human impacts. Field and laboratory experience.

Prerequisites: One year Biology; one year Chemistry; ecology course.

Credits: 4.

**NR 285 - Advanced Special Topics**

Graduate/Senior standing; Instructor permission.

Credits: 0-6.

**NR 288 - Ecol Design & Living Technol**

The course explores the potential for ecological design to shape a sustainable future. It analyses living technologies for food production, waste management and environmental restoration. Pre/co-requisites: Jr/Sr standing; background in ecology/systems theory.

Credits: 3.

**NR 298 - Honors 'Project' Planning**

Discussions leading to the development of an individual or group Senior Honors Project Proposal. Prerequisites: Junior standing; open only to SNR Honors Students. UG only.

Credits: 1.

**NR 299 - Honors**

Honors project dealing with aquatic resources, terrestrial ecology, or integrated natural resources. Prerequisite: By application only; see program chair. UG only.

Credits: 3-6.

**NR 343 - Fndmtls of Geog Info Systems**

standing.

Credits: 3.

**NR 346 - Digital Image Processing**

Principles and applications of digital image processing of remotely sensed imagery. Hands-on analyses of satellite imagery will address environmental issues using ERDAS Imagine software.

Credits: 2.

**NR 354 - Seminar:Envrmtl Policy & Mgmt**

Seminar examining contemporary environmental policy at local, state, national, and international levels; policy formulation, implementation and design relative to current environmental problems. Prerequisites: Graduate

Credits: 3.

**NR 360 - Environmental Sociology**

Instructor permission.

Credits: 3.

**NR 361 - Politic:Landscape,Place,Nature**

Seminar exploring the social and political construction of nature, emphasizing how natural resources and environment are defined through social relationships in particular landscapes and places.

Credits: 2.

**NR 370 - Sp Tpcs in Aquatic Toxicology**

Concurrent enrollment in NR 270. Prerequisite:

Credits: 1.

**NR 375 - NR Planning: Laboratory**

theory and methods to local or regional issues. Students conduct a planning exercise for a town or region. Co-requisite: Concurrent enrollment in NR 275.

Credits: 1.

**NR 377 - Land Use Policy & Economics**

Economic and social forces that drive urban and suburban land use patterns, such as urban sprawl, and the policy mechanisms designed to intervene in those processes.

Credits: 3.

**NR 378 - Integrating Analyses NR Issues**

Resource Issues. Seminar contrasting epistemologies and ontologies of natural resource disciplines. Applications from fields such as ecology, policy, sociology, engineering, and ethics. Prerequisite: Graduate standing.

Credits: 2.

**NR 380 - Seminar in Natural Resources**

Presentation and discussion of advanced problems, research, and current topics in natural resources by faculty, graduate students, and outside guest speakers.

Credits: .5-2.

**NR 382 - Seminar in Research Planning**

Cross-listed with: FOR 382.

Credits: 1.

**NR 384 - Independent Study in NR**

Readings, with conferences, to provide graduate students with backgrounds and specialized knowledge relating to an area in which an appropriate course is not offered.

Credits: 1-3.

**NR 385 - Special Topics in NR**

Graduate topics and material that may eventually develop into a regular course offering; in addition, it may include topics and material presented only once.

Credits: 0-3.

**NR 391 - Master's Thesis Research**

Credits: 1-18.

**NR 392 - Master's Project Research**

Credits: 1-12.

**NR 491 - Doctoral Dissertation Research**

Credits: 1-18.

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## Recreation Management Program

### Contact Information

*University of Vermont  
The Rubenstein School of Environment  
and Natural Resources  
Recreation Management Program  
George D. Aiken Center  
81 Carrigan Drive  
Burlington, VT 05405*

Phone: (802) 656-2911  
Fax: (802) 656-2623  
Email: [Robert.Manning@uvm.edu](mailto:Robert.Manning@uvm.edu)

[Web Site](#)

### Overview

The Recreation Management major integrates the study of environmentally based tourism and hands-on management of outdoor recreation resources. Students may major in Public Outdoor Recreation or Private Outdoor Recreation and Tourism. Public recreation resources include parks, forests, wilderness areas, and other outdoor recreation environments at the local, regional, state, and federal government levels. Private resources include ski areas, campgrounds, resorts, and other natural resource-based recreation facilities. The program permits specialization in several types of private recreation businesses, including ski resorts.

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## Recreation Management (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School of Environment and Natural Resources does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

The minor requires a planned course of study which will provide a substantive introduction into the field of recreation management. Interested students should contact the Program Chair. A total of 15 credit hours are required. A minimum of nine credits are to be selected from [RM 1](#), [RM 50](#), [RM 138](#), [RM 153](#), [RM 157](#), [RM 158](#). A minimum of six credits are to be selected from [RM 230](#), [RM 235](#), [RM 240](#), [RM 255](#), [RM 258](#).

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## Recreation Management: Private Outdoor Recreation and Tourism (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [Recreation Management Core Courses](#)

### Specific Requirements

Required courses: [RM 1](#), [RM 50](#), [RM 157](#), [RM 158](#), [RM 191](#), [RM 230](#), [RM 258](#); three courses selected from [RM 138](#), [RM 153](#), [RM 235](#), [RM 240](#), [RM 255](#); and nine additional credits of professional electives to be chosen in consultation with an advisor.

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## Recreation Management: Public Outdoor Recreation (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [Recreation Management Core Courses](#)

### Specific Requirements

Required courses: [RM 1](#), [RM 138](#), [RM 153](#), [RM 191](#), [RM 235](#), [RM 240](#), [RM 255](#); three courses selected from [RM 50](#), [RM 157](#), [RM 158](#), [RM 230](#), [RM 258](#); and nine additional credits of professional electives to be chosen in consultation with an advisor.

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## Recreation Management Core Courses

A total of 126 credits are required for the degree.

Courses required for all Recreation Management majors:

- One course in humanities (History, Philosophy, Religion, Classics)
- One course in communications (Art, Music, Theater, Art History, foreign language, English literature)
- One course in social sciences (Anthropology, Economics, Geography, Political Science, Psychology, Sociology)
- One laboratory course in natural sciences (Biology, Physics, Chemistry, Botany, Zoology, Geology)

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## Courses in Recreation Management

### RM 001 - Intro to Recreation Management

Introduction to the broad field of outdoor recreation and tourism, including history, philosophy, current issues, career opportunities, and the Recreation Management Program.

Credits: 1.

### RM 030 - US National Parks

The natural beauty and unique phenomena of our National Parks are emphasized. Historical development and current problems are cited. Credit not granted for both 30 and Natural Resources 2.

Credits: 3.

### RM 050 - Tourism Planning

Examination of tourism including its economic, environmental, and social effects. Emphasis on planning to maintain the integrity of tourist regions.

Credits: 3.

### RM 138 - Park & Recreation Design

Recreation design methodology applied to the design of public and private recreational facilities.

Credits: 4.

### RM 152 - Forest Resource Values

Cross-listed with Forestry 152.

Credits: 3.

### RM 153 - Recreation Admin & Operations

Administration and operation of outdoor recreation agencies and businesses. Special emphasis on recreation administrative structures, personnel management,

Education

and maintenance of parks and outdoor recreation areas. Prerequisites: Junior or senior standing.

• Graduate College

Credits: 3.

• Honors College

**RM 157 - Ski Area Management**

An analysis of current management problems affecting private ski areas in Vermont and the Northeast. Prerequisites: Junior or senior standing. Alternate years.

• School of Business Administration

Credits: 3.

• The Rubenstein School of Environment and Natural Resources

**RM 158 - Resort Mgmt & Marketing**

Study of the management of year-round resort facilities. Emphasis on resort marketing, internal support functions, and associated recreational facilities. Prerequisites: Junior or senior standing.

Credits: 3.

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**RM 160 - Parks & People I**

A Living/Learning Center Program. Consideration of impacts of recreation on the environment. Discussion of the operation of the Vermont State Park System. Credit for 160 will not be granted until 161 has been successfully completed.

Credits: 1.

Faculty and Administration

**RM 161 - Parks & People II**

A Living/Learning Center Program. Consideration of impacts of recreation on the environment. Discussion of the operation of the Vermont State Park System. Credit for 160 will not be granted until 161 has been successfully completed.

Credits: 1.

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**RM 188 - Special Topics**

Independent study. Prerequisites: Junior standing, permission.

Credits: 1-3.

**RM 191 - Rec Management Practicum**

Supervised field experience in national, state, urban, or private park and recreation operations. Prerequisite: Junior or senior standing in Recreation Management.

Credits: 1-6.

**RM 230 - Ecotourism**

Study of nature-based travel emphasizing international destinations. Examination of ecotourism as a tool for preservation and economic development. Prerequisites: Junior or senior standing (Not offered for graduate credit.)

Credits: 3.

**RM 235 - Outdoor Recreation Planning**

Planning large land areas for outdoor recreation use. Emphasis on the planning process relative to the leisure time use of natural resources. Prerequisites: Advanced standing in Recreation Management or permission. UG only.

Credits: 3.

**RM 240 - Park and Wilderness Management**

History, philosophy, and management of wilderness, national parks, and related areas. Prerequisite: Junior or senior standing in Recreation Management.

Credits: 3.

**RM 255 - Environmental Interpretation**

Philosophy, principles, and techniques of communicating environmental values, natural history processes, and cultural features to recreation visitors through the use of interpretive media. Prerequisite: Advanced standing in Recreation Management or permission.

Credits: 4.

**RM 258 - Entrepreneurship Rec&Tourism**

Study of entrepreneurial theories, concepts, and practices and their application to recreation and tourism. Emphasis on preparation of individual business plans.

Prerequisites: Junior or senior standing in Recreation Management or permission. (Not offered for graduate credit.)

Credits: 3.

**RM 299 - Recreation Management Honors**

Honors project dealing with management of outdoor recreation and tourism.

Prerequisite: By application only; see program chair. UG only.

Credits: 3-6.

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Departments and Programs > Wildlife and Fisheries Biology Program

## Wildlife and Fisheries Biology Program

### Contact Information

*University of Vermont  
The Rubenstein School of Environment  
and Natural Resources  
Wildlife and Fisheries Biology Program  
George D. Aiken Center  
81 Carrigan Drive  
Burlington, VT 05405*

Phone: (802) 656-2691

Fax: (802) 656-8683

Email: [David.Hirth@uvm.edu](mailto:David.Hirth@uvm.edu)

[Web Site](#)

### Overview

The areas of wildlife biology and fisheries biology deal with the management and conservation of animal populations that range from species that are common enough to be hunted/fished to species that are endangered. Management strategies may include manipulation of populations directly or indirectly through alteration of habitat. Courses emphasize applied ecology and provide hands-on experience in labs and field trips. All Wildlife and Fisheries Biology majors complete the same core of courses during the first year. As sophomores, students elect either the Wildlife Biology or the Fisheries Biology option. Required courses in the major satisfy educational requirements of the U.S. Office of Personnel Management for entry-level positions in these fields

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## Wildlife and Fisheries Biology: Fisheries Biology (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [Wildlife and Fisheries Biology Core Requirements](#)

### Specific Requirements

Required courses: [PHYS 11/PHYS 21](#) or [PHYS 12/PHYS 22](#) or [PHYS 96](#), Green Mountain Physics; [WFB 232](#); [NR 250](#); [NR 260/WFB 272](#); [NR 270](#) or [WFB 279](#); six additional hours selected from [NR 270](#), [NR 280](#), [BIOL 264](#), [BOT 234](#), [WFB 271](#), [WFB 279](#), [WFB 286](#).

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Departments and Programs > Wildlife and Fisheries Biology Program > Academic Offerings > Wildlife and Fisheries Biology: Wildlife Biology (B.S.)

## Wildlife and Fisheries Biology: Wildlife Biology (Bachelor of Science)

### General Requirements

- [The Rubenstein School of Environment and Natural Resources Degree Requirements](#)
- [Wildlife and Fisheries Biology Core Requirements](#)

### Specific Requirements

Required courses: [FOR 21](#); [WFB 130](#), [WFB 131\\*](#), [WFB 150\\*](#); [BOT 109](#); [BIOL 217](#); three courses (one must have a lab) selected from [NR 224](#); [WFB 185](#), [WFB 271/WFB 272](#), [WFB 273/WFB 274](#), [WFB 275](#), or [WFB 279](#).

\* Field intensive courses offered only during the summer session.

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Departments and Programs > Wildlife and Fisheries Biology Program > Academic Offerings > Wildlife Biology (Minor)

## Wildlife Biology (Undergraduate Minor)

### Specific Requirements

The Bachelor of Science degree in The Rubenstein School of Environment and Natural Resources does not require completion of a minor. However, many students in The Rubenstein School do complete minors, either within the School or in other departments across campus. Interested students should contact the chair of the minor program or department.

Applications for the minor must be filed no later than June 1 of the year preceding graduation or of the completion of the requirements for the minor. A minimum of 15 credit hours is required in prescribed and elective courses. Required courses: [WFB 130](#), [WFB 174](#); [WFB 271](#) or [WFB 273](#). Elective courses: [WFB 131](#), [WFB 150](#), [WFB 176](#), [WFB 177](#), [WFB 185/WFB 186](#), [WFB 187/WFB 188](#), [WFB 271](#), [WFB 272](#), [WFB 273](#), [WFB 274](#), [WFB 275](#), [WFB 279](#), [WFB 285/WFB 286](#), [WFB 287/WFB 288](#); [NR 224](#).

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## Wildlife and Fisheries Biology Core Requirements

A total of 122 credits are required for the degree. Courses required for all majors: \*[MATH 019](#) or [MATH 021](#); \*[NR 140](#); [BIOL 001](#), [BIOL 002](#); [CHEM 023](#); [CHEM 026](#) or [CHEM 042](#); [BIOL 101](#) or [BOT 132](#); [NR 025](#); [FOR 121](#); [GEOL 001](#), [PSS 161](#), or [FOR 185](#); [WFB 161](#), [WFB 174](#).

\* Also fulfills RSENR general education requirement.

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## Courses in Wildlife & Fisheries Biology

### WFB 074 - Wildlife Conservation

Historical and contemporary values of wildlife; impacts on habitats and populations; strategies for conservation, allocation, and use. Nonmajors only. Prerequisite: Basic understanding of biological terms and concepts.

Credits: 3.

### WFB 130 - Ornithology

Taxonomy, classification, identification, morphology, physiology, behavior, and ecology of birds. Prerequisite: BIOL 001, BIOL 002, or equivalent.

Credits: 3.

### WFB 131 - Field Ornithology

Identification and field studies of birds, emphasizing resident species. Two weeks in summer. Prerequisite: WFB 130 . Preference to WFB majors.

Credits: 2.

### WFB 150 - Wildf Habitat & Pop Measrmt

Field methods for measuring habitat variables and estimating population parameters. One week in summer. Prerequisites: 131, Forestry 21 or Botany 109, Natural Resources 140.

Credits: 1.

### WFB 161 - Fisheries Biology & Management

Introduction to freshwater fish, habitats, and life histories. Overview of fishery management techniques and principles, including sampling and assessment methods, stocking, population and habitat manipulation, and regulations.

Prerequisites: Biology 1, 2 or equivalent.

Credits: 4.

Education

• Graduate College

• Honors College

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### **WFB 174 - Prin of Wildlife Management**

Application of ecology and sociology to the management of wildlife populations and habitat; integration of wildlife management with demands for other resources; consideration of game species, endangered species, and biological diversity.

Prerequisites: Natural Resources 103 or Biology 102 or Botany 160.

Credits: 3.

### **WFB 175 - Wildlife and Society**

Investigates how people's attitudes, institutions, policies, and behaviors have affected wildlife across the North American landscape. Alternate years.

Credits: 3.

### **WFB 176 - Florida Ecology Field Trip**

Major ecosystems and associated wildlife, ranging from north Florida flatwoods to south Florida Everglades. Field trip over spring recess. Prerequisite: WFB 130, WFB 174; Instructor permission. Alternate years.

Credits: 2.

### **WFB 177 - Texas Wildlife Field Trip**

Major ecosystems and associated wildlife of south Texas, including Gulf coast, coastal prairies, lower Rio Grande Valley, and Chihuahuan desert. Field trip over spring recess. Prerequisite: WFB 130; Instructor permission. Alternate years.

Credits: 2.

### **WFB 185 - Special Topics**

Credits: 1-6.

### **WFB 186 - Special Topics**

Credits: .5-6.

### **WFB 187 - Undergrad Special Projects**

Individual projects supervised by a faculty member. Projects may involve independent field, laboratory, or library investigations. Formal report required.

Prerequisite: Junior standing; submission of a project prospectus for permission.

Credits: 1-5.

### **WFB 188 - Undergrad Special Projects**

Individual projects supervised by a faculty member. Projects may involve independent field, laboratory, or library investigations. Formal report required.

Prerequisite: Junior standing; submission of a project prospectus for permission.

Credits: 1-5.

### **WFB 191 - Wildlife & Fisheries Practicum**

Supervised work experience in the wildlife and fisheries area. Prerequisite: Instructor permission. Credit as arranged.

Credits: 1-6.

### **WFB 232 - Ichthyology**

graduate credit.

Credits: 3.

**WFB 271 - Wetlands Wildlife**

Breeding biology, behavior, habitat management, and population ecology of wetland wildlife with emphasis on waterfowl. Prerequisites: WFB 174, NR 103. Undergraduate/

Credits: 2.

**WFB 272 - Wetlands Wildlife Laboratory**

Laboratory and field assessment of the ecology and management of wetland habitats and their associated wildlife populations. Prerequisites: Previous or concurrent enrollment in WFB 271 or NR 260. Undergraduate/graduate credit.

Credits: 1.

**WFB 273 - Terrestrial Wildlife**

Integration of ecological principles, wildlife biology, land use, and human dimensions in wildlife. Emphasis on development and maintenance of terrestrial wildlife habitat, and population regulation of terrestrial species. Prerequisite: 174. Undergraduate/graduate credit.

Credits: 3.

**WFB 274 - Terrestrial Wildlife Lab**

Laboratory and field experience related to terrestrial species and management of their habitat. Field project required. Prerequisite: Previous or concurrent enrollment in 273. Undergraduate/graduate credit.

Credits: 1.

**WFB 275 - Wildlife Behavior**

Behavior and social organization of game and nongame species as they pertain to population management. Prerequisites: One year of biology, an ecology course, 74 or 174 recommended. Undergraduate/graduate credit.

Credits: 3.

**WFB 279 - Marine Ecology**

Structure and function of major marine communities, including open ocean, benthos, coral reefs, and estuaries. environment. Prerequisites: Biology 1 and 2, an ecology course, or instructor permission. Undergraduate/graduate credit.

Credits: 3.

**WFB 285 - Advanced Special Topics**

Credits: 1-6.

**WFB 286 - Advanced Special Topics**

Credits: 1-6.

**WFB 287 - Advanced Special Projects**

Advanced readings and discussions or special field and/or laboratory investigations dealing with a topic beyond the scope of existing formal courses. Prerequisite: Senior graduate credit.)

Credits: 1-6.

**WFB 288 - Advanced Special Projects**

Advanced readings and discussions or special field and/or laboratory investigations dealing with a topic beyond the scope of existing formal courses.

Prerequisite: Senior standing or permission. Credit arranged. (Not offered for graduate credit.)

Credits: 1-6.

**WFB 299 - Wildlife & Fisheries Honors**

Honors project dealing with wildlife or fisheries biology. Prerequisite: By application only; see program chair.

Credits: 3-6.

**WFB 311 - Ecology of Fishes**

Structure of fish assemblages, zoogeography, morphology, life history strategies, bioenergetics, competition, predation, and fish effect on ecosystems.

Prerequisites: Graduate standing or Instructor permission; NR 140 or STAT 201; an ecology course.

Credits: 3.

**WFB 352 - Population Dynamics & Modeling**

Modeling and analysis of animal population dynamics, as influenced by environmental, ecological, and management factors; estimation of population size, density, survivorship, reproduction, and migration. Prerequisite: NR 140 or STAT 211; an ecology course.

Credits: 4.

**WFB 387 - Graduate Special Problems**

Instructor Permission. Advanced readings or special investigation dealing with a topic beyond the scope of existing formal courses or thesis research, culminating in an acceptable paper. Prerequisite:

Credits: 1-6.

**WFB 388 - Graduate Special Problems**

Advanced readings or special investigation dealing with a topic beyond the scope of existing formal courses or thesis research, culminating in an acceptable paper.

Prerequisite: Instructor Permission.

Credits: 1-3.

**WFB 391 - Master's Thesis Research**

Credit as arranged.

Credits: 1-18.

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## The Rubenstein School of Environment and Natural Resources Aiken Scholars Program

High achieving, highly motivated first-year students have access to special academic enrichments during their first year at UVM. These enrichments include the Aiken Scholars seminar in their first semester, priority status for Aiken Scholars housing and course registration for their first year at UVM, and honorary society membership.

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Requirements > The Rubenstein School of Environment and Natural Resources Degree Requirements

## The Rubenstein School of Environment and Natural Resources Degree Requirements

Students must be matriculated in The Rubenstein School and in residence at The University of Vermont during the period in which they earn 30 of the last 45 hours of academic credit applied toward the degree. Students must earn a cumulative grade-point average of 2.0 or above. Students must complete a program of study which includes:

1. RSENR core curriculum
2. RSENR general education courses
3. RSENR major requirements
4. University requirement in Physical Education Activities (two credits)

### RSENR Core Curriculum

The Rubenstein School's core curriculum provides a common experience for all students. The innovative seven-course sequence creates an integrated foundation upon which the individual majors in the School are constructed. Core courses focus on the underlying fundamentals from which natural resources disciplines have evolved and the application of these fundamentals to problems or issues in the natural world and society. The core courses also promote development of thinking, communications, problem solving, and analytical skills. Faculty from all undergraduate programs teach in the core. The RSENR core curriculum represents a body of knowledge, skills, and values that the faculty believe is central to the study of natural resources and the environment.

### Seven Required Courses

	<b>Credits</b>
<u>NR 001</u> , Natural History and Field Ecology	4
<u>NR 002</u> , Nature and Culture	3
<u>NR 103</u> , Ecology, Ecosystems and Environment	3

Education	<a href="#">NR 104</a> , Social Processes and the Environment	3
• Graduate College	<a href="#">NR 105</a> , Environmental Problem Analysis	1
• Honors College	<a href="#">NR 205</a> , Ecosystem Management: Integrating Science, Society, and Policy	3
	<a href="#">NR 206</a> , Environmental Problem Solving and Impact Assessment	4
• School of Business Administration	<a href="#">NR 001</a> and <a href="#">NR 002</a> provide an introduction to the study of natural resources and the environment from natural and social science standpoints, respectively. At the completion of these courses, students should (1) have a basic understanding of the School's integrated approach to natural resources and the environment, (2) be better prepared to make informed decisions about their academic majors, and (3) be prepared to advance to an intermediate level of study in natural resources. The intermediate courses in the sequence, <a href="#">NR 103</a> and <a href="#">NR 104</a> , emphasize ecosystems and social systems, respectively. They are linked through a one-credit interdisciplinary problem analysis module, <a href="#">NR 105</a> . The last two courses focus directly on integrated and holistic management. In <a href="#">NR 205</a> , students integrate natural and social science to understand environmental management principles and policies. In <a href="#">NR 206</a> , the capstone course taken senior year, students are challenged to synthesize and apply the interdisciplinary knowledge, skills, and values they have learned to contemporary natural resources and environmental issues.	
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### General Education Courses

RSENR general education requirements are designed to enhance a student's ability to assimilate and analyze information, think and communicate clearly, and respect multiple perspectives. These requirements are flexible in order to encourage creativity in meeting educational goals. Two sets of courses are stipulated:

Five courses in required areas:

1. Writing - [ENGS 001](#), [ENGS 050](#), or [ENGS 053](#)
2. Speaking - [SPCH 011](#), [THE 005](#), [AGRI 183](#), or [NR 185](#) (Speaking & Listening)
3. Race and Culture - [NR 006](#) or [EDSS 011](#).
4. Mathematics - [MATH 009](#) or higher (but not [MATH 017](#)) \* Varies depending on major choice.
5. Statistics - [NR 140](#), [STAT 111](#), [STAT 141](#), or [STAT 211](#). \* Varies depending on major choice.

*Three courses in a self-design sequence:*

Student defines a learning objective and selects at least 9 credits from departments outside RSENR to meet that objective. This sequence of courses must be approved in advance.\*

\* Before completion of four semesters or 60 credit hours; time-frame may be extended for transfer students.

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Colleges and Schools > The Rubenstein School of Environment and Natural Resources > Requirements > The Rubenstein School of Environment and Natural Resources Undergraduate Internships

## The Rubenstein School of Environment and Natural Resources Undergraduate Internships

Experiential learning is encouraged. The School offers students assistance in securing summer, part-time, and permanent employment in natural resources fields. Well-developed internship and cooperative education programs award academic credit for contracted work experiences. These opportunities to explore and confirm career interests, to develop professional contacts and exposure, give graduates a competitive edge when they enter the job market.

### Travel Courses and Field Studies

The Rubenstein School relies heavily on Vermont's natural landscapes - its mountains, lakes, fields, and forests - to provide students hands-on experience studying ecology and ecosystem processes. In addition, RSENR offers a variety of intensive field courses during vacation breaks and summer session that provide students special opportunities to study the wildlife of Florida or south Texas ([WFB 176/WFB 177](#)), environmental research in the Chesapeake Bay region ([ENSC 185](#)), ecotourism and environmental interpretation in Costa Rica or Sub-Saharan Africa ([RM 188](#)), regional examples of sustainable forest management and practices ([FOR 185](#)) and the aquatic ecology of large lakes ([NR 255](#)) from the deck of the Melosira, UVM's research vessel.

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## Studying the Environment

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One of the distinctive features of UVM is its focus on studying the environment and environmental problems. Students interested in these issues have a rich array of choices. Many of these are within specific disciplines, but others offer the opportunity for multidisciplinary study. UVM has several multidisciplinary degree programs.

Academic Offerings

Environmental Studies is a curriculum offered to students from four different colleges and schools (the College of Agriculture and Life Sciences, the College of Arts and Sciences, the College of Education and Social Services, and The Rubenstein School of Environment and Natural Resources) and is coordinated within the Environmental Program.

Colleges and Schools

An Environmental Sciences major is jointly offered by the College of Agriculture and Life Sciences, the College of Arts and Sciences, and The Rubenstein School of Environment and Natural Resources, with emphases in agriculture and the environment, conservation biology and biodiversity, ecological design, environmental analysis and assessment, environmental biology, environmental chemistry, environmental geology, environmental resources, and water resources.

Policies and General Information

The College of Engineering and Mathematics offers students the opportunity to pursue a degree in Environmental Engineering.

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### Environmental Degree Offerings

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### Academic Reprieve

The Academic Reprieve Policy is designed to make it possible for former UVM undergraduate students, whose academic performance when first enrolled was below standard, to resume their studies without the encumbrance of the grades previously earned.

The Academic Reprieve Policy is available to returning students who have not been enrolled at UVM or any other accredited institution of higher education for a period of at least three calendar years.

Former students returning to the University may request the application of the Academic Reprieve Policy only once in their career at UVM. The established procedures and criteria for admission or readmission apply to students applying for an Academic Reprieve.

The dean of the college/school in which the student is enrolled at the time of initial eligibility for the application of the Academic Reprieve Policy shall determine eligibility for, and application of, the policy. Eligible former students must file a petition with the appropriate dean requesting reprieve of all prior course work at the University, either at time of admission or readmission or before the close of the first semester of re-enrollment. The Reprieve Policy includes all previous UVM work and does not allow the students to pick and choose individual courses for reprieve. All courses with grades below passing are ignored, credit hours for courses passed are carried forward, but the grades are not figured in the new grade-point average, which begins again at zero.

Any person electing the reprieve option is required to complete a minimum of 30 additional regularly graded credits at UVM before a degree may be awarded (15 regularly graded credits for the associate degree); these credits are not open to the pass/fail option. Those electing the reprieve option may qualify for honors at graduation

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only on the same basis as any transfer student, i.e. completion of 60 or more regularly graded credits at UVM (30 or more regularly graded credits for the associate degree programs).

Persons electing the reprieve option will be required to meet degree requirements of the catalogue in effect on the date of the student's application for readmission.

The Reprieve Policy applies solely to regular undergraduate degree programs. Graduate programs are specifically excluded.

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### Accelerated Master's Programs

A number of departments and programs provide opportunities for selected undergraduates to participate in Accelerated Master's Programs (AMPs). This option is available for admission to graduate programs in Animal and Food Sciences, Biology, Biomedical Technology, Biostatistics, Computer Science, Education (Curriculum and Instruction and Professional Education), History, Materials Science, Mathematics, Mechanical Engineering, Microbiology and Molecular Genetics, Nursing, Public Administration, and Statistics. The AMP allows early admission to graduate studies with up to six concurrent credits double-counted toward the bachelor's and master's degrees.



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### Accreditations

The University of Vermont is accredited by the New England Association of Schools and Colleges, Inc., a nongovernmental, nationally-recognized organization whose affiliated institutes include elementary schools through collegiate institutions offering postgraduate instruction.

Accreditations of an institution by the New England Association indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the New England Association is not partial but applied to the institution as a whole. As such, it is not a guarantee of quality of every course or program offered or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.















Inquiries regarding the status of an institution's accreditation by the New England Association should be directed to the administrative staff of the University. Individuals may also contact the [New England Association of Schools and Colleges](#) ☐, 209 Burlington Road, Bedford, MA 01730-1433, (781) 271-0022.

Specific program accreditations include:

- Agriculture and Life Sciences
  - Dietetics ☞ Commission on Accreditation for Dietetics Education
- Arts and Sciences
  - Chemistry ☞ American Chemical Society

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- Speech-Language Pathology  American Speech-Language-Hearing Association
- Clinical Psychology  American Psychological Association
- Business Administration
  - AACSB International  The Association to Advance Collegiate Schools of Business
- Education
  - Athletic Training Education Program  Commission on Accreditation of Allied Health Programs
  - Social Work  Council on Social Work Education
  - Teacher Education  Vermont Department of Education
  - Athletic Training  Commission on Accreditation of Allied Health Education Programs
  - Counseling  Council for Accreditation of Counseling and Related Educational Programs
  - National Council for Accreditation of Teacher Education
- Engineering and Mathematics
  - Engineering Programs (Mechanical, Electrical, Civil)  Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
- Medicine
  - Liaison Committee on Medical Education, American Medical Association  Association of American Medical Colleges
- Nursing and Health Sciences
  - Biomedical Technologies
    - Medical Laboratory Science  National Accrediting Agency for Clinical Laboratory Science
    - Nuclear Medicine Technology  Joint Review Committee on Education Programs in Nuclear Medicine Technology
  - National League for Nursing Accrediting Commission, Inc.
  - Physical Therapy  American Physical Therapy Association  Commission on Accreditation in Physical Therapy Education

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### Admissions Criteria for Undergraduate Students

The University of Vermont selects those students who demonstrate the greatest potential for academic success at the University based on prior academic performance.

Recognizing the University's focus on engagement with local, state, national and global communities, admission policies focus on achieving geographic balance; variety of experience and background; and cultural/economic diversity within the fabric of its student population. As a state-assisted university, the University of Vermont has a special commitment to Vermont residents, a commitment reflected by ensuring that Vermont students receive priority consideration in the admissions process. Our commitment to forging a diverse education community is manifested in a special effort to recognize and meet the educational needs of members of ALANA (African American, Latino, Asian, and Native American) populations.

Determining potential for a student to benefit from a UVM education lies at the heart of the work of the University's Office of Undergraduate Admission. This determination is based on a blending of the academic record with other attributes in a student's background. A candidate for admission must demonstrate an ability to perform at a high level scholastically. For a first-year student, this is determined by performance in high school and on standardized examinations. Transfer and non-traditional candidates will be evaluated on the results of completed college-level course work, standing at previous institutions, and/or other educational credentials appropriate to student age and educational history. At a minimum, candidates for admission are expected to complete the entrance requirements established by the UVM faculty to ensure exposure to broad fields of intellectual inquiry; some programs require further study in areas relevant to professional development. Additionally, to form a comprehensive view of a student's candidacy, University admission staff gauge the rigor of a student's program by reviewing breadth of study and course levels (e.g. Honors and AP course work); measure the student's relative standing in the graduating class through grade point average, class

rank, or other indices; observe trends in the student's performance over time; and assess the competitive nature of the high school and/or college environment. Standardized test scores are viewed as one of several indicators of student academic potential and not as a single criterion for admission to the University.

Beyond academic credentials, other characteristics and experiences in a student's background are reviewed in making an admission decision particularly when the academic record in isolation is not decisive. Required student essays, recommendations, and other evidence of the student's life experiences are examined to more fully understand the student's potential to succeed and contribute at UVM. All achievements, both academic and non-academic, will be considered in the context of the opportunities an applicant has had, hardships or unusual circumstances faced, and the response to these. Evidence of special talents, community service, imagination and tenacity are also considered indicative of promise for future contributions to the life of the University and to its mission. Admission decisions are made without regard to family financial circumstances, although University financial aid and scholarship funding is deployed on the basis of academic merit as well as financial need.

Although University Admissions staff makes final admission decisions, consultation with academic unit representatives precedes any decision for a student whose credentials may not be clear and decisive. Admission policies are made by the Department of Admissions in collaboration with the schools and colleges that constitute The University of Vermont and are subject to review by The University of Vermont Faculty Senate and the Board of Trustees.

### **Minimum Undergraduate Entrance Requirements**

At a minimum, candidates for all majors at UVM are expected to have met the following requirements prior to entry.

- 4 years of English
- 3 years of Mathematics (Algebra I, geometry, Algebra II, or equivalent courses)
- 3 years of social science
- 2 years of natural or physical science
- 2 years of the same foreign language (American Sign Language meets this requirement.)

Course work not completed at the high school level may be fulfilled by equivalent college-level academic work.

In general, one semester of college work is considered the equivalent of one year of high school study.

Any exceptions to these requirements are made on a case-by-case basis.

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#### Early Action

Early Action Students applying for first-year status who wish to learn of their admission decision by late December may apply by November 1 under the Early Action program. Candidates admitted under Early Action have until May 1 to pay an Acceptance Fee and are not making a commitment to attend the University.

Early Action applicants are offered admission if their academic records are very strong. Some Early Action candidates will be deferred until the Admissions Office has reviewed all first-year applicants for fall admission. A small number of candidates will learn in late December that they have been denied admission.

For new students, some scholarship preference will be given to those students applying under Early Action programs.

#### New England Regional Student Program

The University of Vermont participates with the other public two-and four-year institutions of higher education in the six New England states in the New England Regional Student Program, an option aimed at increasing educational opportunities for the region's students.

New England residents who enroll in UVM programs open to them under the New England Regional Student program are charged 150 percent of in-state tuition.

UVM Bachelor's degree programs offered for the 2003-04 academic year are:

- Botany to residents of MA
- Canadian Studies to residents of CT, MA, NH, and RI

Classical Languages (Greek and Latin) to residents of CT and RI

- Forestry to residents of CT and RI
- Latin to residents of CT and RI
- Russian to residents of CT, ME, and RI

For a full listing of programs and policies, contact the [New England Board of Higher Education](#) , 45 Temple Place, Boston, MA 02111, (617) 357-9620.

### **Guaranteed Admission Program (GAP)**

The Guaranteed Admission Program (GAP) provides an avenue of entry to the University of Vermont for students who are not yet ready to enter an undergraduate degree program. GAP provides advising services and guarantees admission after successful completion of approved academic credit courses taken through Continuing Education. The program is administered cooperatively by Continuing Education, Undergraduate Admissions, and the deans' offices of the colleges and schools within UVM.

To qualify for the Guaranteed Admission Program students must have a high school diploma or GED. Students will complete a minimum of 18 semester credits in approved courses as well as courses for the proposed major and general education requirements. Any admissions requirements lacking from high school must also be completed. A grade point average of 3.0 must be maintained. Students in the program have the option of applying for admission at any time as regular applicants. Admission is only guaranteed, however, to those students who have successfully completed their contract course work. Please refer to admission deadlines.

A few majors may have additional restrictions or may not be accessible through the Guaranteed Admission Program. Please contact [Continuing Education](#)  for a list of these programs.

Students should call the Continuing Education Office at (802) 656-2085 or (800) 639-3210 to schedule an appointment with an advisor. A high school transcript as well as a transcript for any previous college work should be provided at the appointment.

The advisor will discuss the program and begin the process of determining the courses needed to complete the contract. If a student has earned previous credits, a copy of his/her transcripts will be forwarded to the Office of Transfer Affairs to determine which courses will transfer to UVM upon admission.

### **Preveterinary Programs**

#### **UVM/Tufts B.S./D.V.M. Guaranteed Admission Program**

This program allows students to apply for admission to [Tufts University School of Veterinary Medicine](#)  toward the end of their sophomore year at UVM. Accepted students will be guaranteed admission to Tufts after completing a four year B.S. program at UVM. Students will receive their D.V.M. degree from Tufts after successful completion of the Tufts Veterinary School requirements.

## **UVM/Massey University (New Zealand) B.S./B.V.Sc. Guaranteed Admission Program**

This program allows students to complete their B.S. at UVM and gain automatic admission to Massey University Veterinary School, which is accredited by the American Veterinary Medical Association. Students who have completed the basic required courses with a specific GPA, have completed a standardized test, and have had five days of experience with a veterinarian will automatically be accepted into the Massey University Program to obtain their veterinary degree. The program is limited to five students.

| Burlington, VT 05405 | (802) 656-3131 | [Contact UVM](#) © 2018



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### Admissions Requirements and Recommendations by UVM College/School

Each of the University's undergraduate colleges and schools reserves the right to set additional requirements for their majors and to recommend courses of study beyond the minimum presented below.

#### College of Agriculture & Life Sciences

*Required courses:* 1 year of biology and 1 year of chemistry for science majors.

*Recommended:* All candidates to the College of Agriculture & Life Sciences are strongly encouraged to take 1 year of physics and at least 1 year of college preparatory math beyond Algebra II (calculus is preferred) in addition to biology and chemistry.

#### College of Nursing and Health Sciences

*Required courses:* 1 year of biology and 1 year of chemistry for all majors; 4 years of math, including trigonometry, for all majors outside of nursing.

*Recommended:* Proficiency in physics, biology, chemistry, and mathematics through trigonometry.

#### College of Arts & Sciences

*Recommended:* Candidates are evaluated on the breadth and depth of their academic record, and performance in courses across the span of liberal arts disciplines.

Candidates are strongly encouraged to present 4 years of mathematics, including trigonometry. Candidates are also encouraged to do foreign language study during all four years of high school and not to limit it to their first and second years. While American Sign Language fulfills a requirement for admission to the University, studying American



Sign in high school will not prepare students to fulfill the foreign language distribution requirement in Arts and Sciences once they are enrolled in the University.

### **Business Administration**

*Required:* Four years of college preparatory mathematics with high achievement. This includes at least one year of college preparatory mathematics beyond Algebra II. Trigonometry or pre-calculus courses are preferred.

*Recommended:* Potential business students are strongly encouraged to enroll in science course work beyond the minimum requirements.

### **College of Education & Social Services**

*Recommended:* Candidates for the Human Development and Family Studies and Social Work programs are encouraged to complete 1 year of biology. Candidates in all teacher education programs are strongly encouraged to pursue mathematics and science course work beyond the minimum requirement.

Students applying to teacher licensure majors must present solid mathematics preparation for the PRAXIS teacher certification examinations.

### **College of Engineering & Mathematics**

*Required:*

- 4 years of mathematics, which includes trigonometry or pre-calculus for all majors
- 1 year of chemistry and 1 year of physics is required for all engineering majors
- 2 years of a laboratory-based science for non-engineering majors (CS, CSIS, Math, and Statistics)

### **School of Natural Resources**

*Required:* 1 year of biology as part of the science requirement.

*Recommended:* Students applying to the School of Natural Resources are urged to present a fourth year of college preparatory math and to continue taking science courses.

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### Admitted Undergraduate Student Information

#### Acceptance Fee and Advance Tuition Deposits

To reserve a space in the class or semester admitted, students should send the Admissions Office an acceptance fee and advance tuition deposit for \$300 made payable to The University of Vermont.

First-time first- and second-year students are required to live in on-campus housing. Students admitted under Early Decision commit to attending UVM and must pay the tuition deposit by January 15. Transfer candidates and all candidates admitted for the spring semester will have a payment deadline printed with their acceptance materials. Housing is not guaranteed for transfer students.

A full refund of the advance tuition deposit can be requested up to the payment deadline. After the payment deadline and up until the first day of classes, \$100 of the payment is refundable.

Acceptance fee refunds will be given up until May 1 for students admitted for fall semester. Transfer students and students admitted for spring semester may receive a refund up to the payment deadline noted on the enrollment card.

#### Orientation

All entering first-year students are required to attend a two-day orientation session in June. At Orientation, new UVM students meet with a faculty advisor, select first semester classes, and learn about living options in the residence halls. Information packets are mailed to incoming students' home addresses once they pay the acceptance fee and advance tuition deposit. Transfer students attend a session just prior to the beginning of the fall semester.

Transfer or first-year students entering in the spring semester receive information about a special spring orientation session once they pay the deposit.

### **Housing**

First-time, first-year and second-year students are required to live in on-campus housing. Entering students explore living options at orientation and are allowed to list residence hall preferences. The Department of Residential Life mails room assignments prior to the beginning of each semester.

### **Class Registration**

The academic advisor at Orientation helps prepare the first semester class schedule. First-year students entering fall semester register for classes at June Orientation. First-year students entering in the spring and transfer students entering either semester meet with an academic advisor at an Orientation session and may need to formally register for classes at that time.

### **Immunization**

Immunization and health history forms are sent directly to newly-admitted students and are due in the Center for Health and Well-being Student Health/Medical Clinic by June 30 of the year of entry. Vermont state law requires proof of two doses of live measles vaccine after the student's first birthday.

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### Advising Resources

In addition to an assigned faculty advisor, a variety of other advising resources are available to undergraduates:

**The Learning Cooperative** represents a collaborative effort on the part of academic and student affairs offices to improve the ability of students to benefit fully from their academic experiences. The Learning Coop supplements the academic environment by providing developmental instruction in writing, reading, and study skills, works with students to develop good learning strategies for challenging courses, and maintains a campus-wide tutoring program.

**Prehealth Advising** assists undergraduate students with the admissions requirements for dental and medical school. A library of resource materials is maintained which includes literature on alternative health careers, school catalogues, and premedical education journals.

**Preveterinary Advising** is available to discuss plans for graduate school and employment in animal science career areas. A selection of catalogues, pamphlets, and other related literature is maintained.

**International Student Advising** is provided through the Office of International Education to assist international students with personal and academic problems, as well as matters relating to immigration and social and cultural adjustment. A special pre-orientation program, prior to the beginning of the fall semester, provides new international students with an introduction to the University and the Burlington community. An active campus International Club provides an opportunity for international students to contribute to campus life and to make friends outside the classroom. Other clubs with an international focus, such as the Overseas Development Network, are also available. Students planning to study abroad should also consult the Office of

International Education, which is located at B161, Living/Learning Center.

**Multicultural Student Advising** at the ALANA Student Center provides broad based support aimed at ensuring the success of Multicultural students at UVM. Services include: academic advising; linking students to resources and opportunities on campus; tutoring; peer mentoring; social and cultural networking. Students may elect to take part in The Summer Enrichment Scholarship Program. A pre-first year opportunity that offers an academic experience (6 credits) and provides an introduction to campus and college life before the official start of the school year.

**Prelaw Advising** is provided through both Career Services and faculty and staff pre-law advisors in the College of Arts & Sciences. Career Services also sponsors workshops, panel discussions and visiting law school representatives. More information regarding pre-law advising can be found at: <http://www.uvm.edu/~career/>.

**Career Services** assists students who are exploring academic majors, internships, work-study positions, full and part-time work opportunities and future career options. Advising is provided as early as first semester and is offered throughout a student's academic career at UVM.

**Continuing Education Advising** assists nondegree students and nontraditional students on course selection, how to apply for a degree program, general information about UVM academic resources, and career and life planning. The advisors work with individuals who are returning to school after raising a family or working outside the home, who are considering a career change, or who have recently graduated from high school.



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### Application and Supporting Materials for Undergraduates

To review an application and render a decision, the Admissions Office must receive the following by the appropriate deadlines:

- The Application for Admission completed and signed by the student. Use of one of the electronic options, available on the web at the [admissions web site](#) , is encouraged. Candidates may also use the Common Application, available online at [Common App Online](#), or from a local high school guidance department. If using the Common Application, please complete the [common application supplemental form](#)  required by UVM.
- A non-refundable \$45 application fee to the University of Vermont via check or money order or credit card (see the form bound into the Application for Admission). For candidates for whom the fee poses a financial hardship, fee waivers are available from a guidance counselor, another person familiar with the financial situation, or from the Admissions Office.
- Official transcripts from all secondary and (for transfer students) postsecondary course work. Candidates may not ignore any previous academic work and are expected to provide a full, accurate accounting of the academic record. Only transcripts forwarded from the issuing agency are considered official.
- Standardized testing results (First-Year Candidates only): The University requires first-year candidates to submit results from either the Scholastic Assessment Test (SAT I) or ACT from the American College Testing Program. UVM's code for the SAT I is 3290 and 4322 for the ACT. For further information regarding these tests, contact a high school guidance office or go directly to the following websites: [collegeboard.com](#)  or [ACT, Inc.](#)
- Letter of recommendation: All candidates must present at least one letter of recommendation. First-year students are encouraged to obtain a recommendation from either a guidance counselor or current teacher. Additional letters are

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welcome.

- Essays: UVM requires one extended essay as part of the admissions process.
- Music Majors: Candidates for the Bachelor of Music, Bachelor of Arts in Music, and Bachelor of Music Education must contact the Music Department at (802) 656-3040 to arrange for an audition or to submit an audition tape before the application deadline. Tapes become property of UVM and will not be returned.

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### Applications Deadlines and Notification Dates for Undergraduates

*(The deadlines noted below are postmark dates.)*

#### Spring Semester

**November 1** ❖ First-year, Transfer, and Evening University candidates. Notification is on a rolling basis no later than the end of December. Payment of a \$300 acceptance fee as proof of intention to enroll is generally due 20 days beyond the date of the letter of admission.

#### Fall Semester

**November 1** ❖ Early Action and Early Decision deadline for first year candidates only. Notification is in late December. Candidates admitted under Early Decision must pay a \$300 acceptance fee as proof of intention to enroll by January 15. Early Action candidates have until May 1 to pay the fee.

**January 15** ❖ Regular First-Year candidates. Notification is in late March. A \$300 acceptance fee is due May 1 as proof of intention to enroll.

**April 1** ❖ Transfer and Evening University candidates. Notification is on a rolling basis no later than the middle of May (assuming the candidate provides all supporting materials in a timely fashion).

Please contact the Admissions Office regarding submission of applications beyond the stated deadline. Requests will be considered on a case-by-case, space available basis.

International students should adhere to all application deadlines. Notification is on a rolling basis.



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Candidates to the RN/BSN should contact the College of Nursing and Health Sciences to obtain an application; admission to this program is on a rolling basis.

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### Articulation Agreements

#### Community College of Vermont/University of Vermont

##### CCV/College of Arts and Sciences

Students who have completed an associate's degree at the [Community College of Vermont](#)  can be accepted to the University of Vermont's College of Arts and Sciences under the following conditions:

- Students must complete a minimum of 60 transferable academic credits pre-approved by UVM's Office of Transfer Affairs.
- Students must present a CCV grade-point average of 2.5 (on a 4.0 scale) or better.
- Candidates for the Articulation Agreement must meet UVM's minimum entrance requirements prior to CCV graduation.
- CCV students must initiate their degree program at UVM within two years of completing the CCV associate's degree.
- While at CCV interested students must sign a letter of intent to enroll at UVM.

##### CCV/College of Education and Social Services

Students who have completed a minimum of 30 transferable credits based on the transfer credit policy of the University of Vermont can be accepted into the College of Education and Social Services. The agreement includes the programs in Human Development and Family Studies, Social Work, Teacher Education programs in Art, Early Childhood Education, and Secondary Education.

- This agreement is in effect for students seeking admission to UVM beginning in Fall 2001.

- Students must present a CCV grade point average of 2.5 (on a 4.0 scale) or better.
- Candidates must meet UVM's minimum entrance requirements or have prior approval from the College of Education and Social Services and the office of Admission.
- To be eligible under the terms of the Articulation Agreement, CCV students must initiate their degree program at UVM within two years of completion of their courses at CCV. Faculty at both institutions will cooperatively certify students as eligible under the terms of the agreement.
- Co-advisement by the appropriate CESS and CCV advisors is essential. Through co-advisement, CCV students may gain secure permission to enroll in beginning-level CESS courses at UVM while enrolled at CCV.
- While at CCV interested students must sign a letter of intent to enroll at UVM.

### The Process Starts at CCV

Current or prospective CCV students interested in this option should meet with a CCV advisor early in their college career to develop an Articulation Plan that outlines course work and ensures completion of any UVM requirements in English, foreign language, mathematics, science, and social sciences. At this time, students will provide transcripts of all previous academic work. This allows the CCV advisor to review the record and assess UVM entrance requirements and CCV course placement.

### Admissions Process at UVM

CCV Articulation candidates are encouraged to meet with a transfer counselor in the UVM Admissions Office to ensure course transferability. Candidates are asked to submit a completed Application for Admission and all financial aid forms by the stated UVM deadlines.

CCV students who have signed the Articulation Agreement do not pay UVM's application fee. Articulation candidates should include a brief statement in the UVM Application for Admission indicating they are applying under this option.

Candidates for UVM admission must submit official copies of all college course work attempted for credit, including the Community College of Vermont transcript. An official high school transcript is required only for candidates who must prove completion of all UVM entrance requirements prior to CCV entry.

UVM Admissions will review articulation student applications for the minimum GPA and entrance requirements. Offers of admission will be sent to those meeting the established criteria. To become a matriculated student at UVM, CCV articulation students must pay an acceptance fee/advance tuition deposit by a date stipulated in the admission letter.

Candidates whose G.P.A.'s fall below the minimum will be reviewed by UVM on a case-by-case basis. Those denied acceptance are encouraged to meet with a transfer counselor at UVM to review future options.

For a current list of transferable CCV courses and UVM equivalents, contact a CCV Advisor or a Transfer Advisor in UVM's Office of Admissions. You can also check [the Registrar's Office Web site](#) .

Recipients of a CCV associate's degree prior to 1999 may contact the UVM transfer advisors for general transfer information.

CCV graduates interested in UVM programs outside the College of Arts and Sciences and the College of Education and Social Services are encouraged to meet with a UVM transfer counselor to discuss their academic history and potential for transfer admission.

### **New Hampshire Community Technical College of Claremont/Nashua/University of Vermont Department of Nursing RN-BS-MS Program**

Students who have completed the two-year Associate Degree in Nursing at [NHCTC](#)  with a minimum of 62 semester hours of credit will be guaranteed admission to UVM's College of Nursing and Health Sciences under the following conditions:

- Students must have a 2.5 (on a 4.0 scale) cumulative grade point average or better.
- Students must meet the College of Nursing and Health Sciences entrance requirements prior to graduation from NHCTC.
- To be eligible under this agreement, students must initiate their degree at UVM within two years of graduation from NHCTC.
- Candidates applying to the University of Vermont under this agreement do not pay the application fee.
- All students who do not meet the above conditions can apply for transfer admission and be reviewed on a case-by-case basis.

For more information about this agreement and course equivalencies, please contact the UVM College of Nursing and Health Sciences at (802) 656-3830.

### **St. Michael's College and UVM Articulation Agreement**

St. Michael's College ([SMC](#) ) and the University of Vermont in the fall of 1994 established an articulation agreement for a Dual Degree Program in Engineering ("the Program"). This agreement guarantees students who meet specified criteria admission to a prescribed program of study in engineering at UVM. Upon successful completion of the Program and degree requirements, students receive a Bachelor of Arts or Bachelor of Science degree from SMC and a Bachelor of Science degree in the appropriate engineering area from UVM. *Students will normally complete the Program in five years.*

The academic advising, admission, transfer of credits, enrollment, and monetary conditions in this agreement applicable to students will be carried out in accordance with the following policies and procedures.

1. Initial application to the Program will be made to SMC.

2. Students will enroll in the Program by declaring a pre-engineering major at the time of admission to SMC to permit them to complete all prerequisites in a reasonable time (see SMC catalogue for pre-engineering program).
3. Students may register for any of the options in the Civil, Environmental, Electrical, or Mechanical Engineering or Engineering Management programs.
4. Students enrolling under this Program will be considered SMC students throughout the duration of the Program. Once admitted to UVM according to the policies of this Agreement, they also become UVM students for the remainder of the Program.
5. For the first three years the host institution for students in the Program will be SMC, and for the last two years the host institution will be UVM. Tuition and fees will be paid to the host institution according to its normal policies (including residence status, financial aid, etc.) Tuition for courses taken at the other institution will be paid by the host institution transferring funds based on an agreed upon amount per credit hour.
6. While students are enrolled at a host institution they will be independently responsible for appropriate fees at the other institution on a per use basis.
7. Students in the Program will make a formal application to UVM by April 1 in the spring semester of their third year at SMC. Interested students should contact the pre-engineering advisor at SMC by November of the third year for information about the application process.
8. Students will matriculate at UVM and will be accepted to the appropriate engineering program at UVM once they have met the following requirements: (a) completion of at least 60 credits at SMC with an overall minimum GPA of 3.0 (only grades of C or above will count towards the 60 credits); (b) completion of Part I of the required pre-engineering courses at SMC, as specified in the Agreement (see SMC catalogue); and (c) completion of 11-12 credits of UVM engineering courses, including the following table of courses, with a minimum GPA of 2.0 in these courses.
  - *Civil Engineering*: [CE 001](#), [CE 010/CE 012](#), [CE 011](#); [ENGR 002](#); [ME 012](#)
  - *Environmental Engineering*: [CE 001](#), [CE 011](#); [ENGR 002](#); [ME 012](#)
  - *Electrical Engineering*: [EE 003](#), [EE 004](#), [EE 081](#), [EE 082](#), [EE 131](#); [ENGR 002](#)
  - *Mechanical Engineering*: [ME 012](#), [ME 014](#), [ME 040](#), [ME 042](#); [ENGR 002](#); [CE 001](#)
  - *Engineering Management*:
    - CE Option: [ENGR 002](#); [CE 001](#), [CE 010/CE 012](#); [ME 012](#), [ME 014](#)
    - EE Option: [ENGR 002](#); [EE 003](#), [EE 004](#), [EE 081](#), [EE 082](#), [EE 131](#)
    - ME Option: [ENGR 002](#); [ME 082](#), [ME 114](#); [MATH 124](#)

### **Union County Community College/UVM College of Arts and Sciences Articulation Agreement**

Students who have completed an associate's degree at [Union County Community College](#) can be accepted into the University of Vermont's College of Arts and Sciences under an articulation agreement. Union County CC students who have completed a

minimum of 60 transferable academic credits, based on the transfer credit policy of the University of Vermont, will be guaranteed admission under the following conditions.

- Students must have a grade point average of 3.0 (on a 4.0 scale) or better.
- Students must meet the minimum entrance requirements for the University of Vermont prior to Union County CC graduation.
- To be eligible under the articulation agreement, Union County CC students must initiate their degree program at UVM within two years of completing the Union County CC degree.
- Candidates applying to the University of Vermont under this agreement do not pay the application fee.
- All students who do not meet the above conditions can apply for transfer admission and be reviewed on a case-by-case basis.

For more information about this agreement and course equivalencies, please contact the Dean's Office in the College of Arts and Sciences at (802) 656-3344.

### **Vermont Technical College/University of Vermont Dairy Farm Management 2 + 2 Program Articulation Agreement**

Students who have completed an associate's degree in the Vermont Technical College  Dairy Farm Management program can be accepted into the University of Vermont's College of Agriculture and Life Sciences (CALS) in the Animal Sciences program, leading to a bachelor's degree. Transferable courses are limited to those directly comparable to UVM courses and meeting the requirements for both programs.

For acceptance, students must meet the following conditions:

- Students must have a 3.0 (on 4.0 scale) or better.
- Students must meet the minimum entrance requirements for the University and for the Animal Sciences program. A list of these courses can be obtained from the agreement coordinator in the College of Agriculture and Life Sciences.
- All students who do not meet the above conditions can apply for transfer admission and be reviewed on a case-by-case basis.
- Candidates applying to the University of Vermont under this agreement do not pay the application fee.

For more information about this agreement and course equivalencies, please contact the agreement coordinator in the College of Agriculture and Life Sciences at (802) 656-1397.

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### Class Standing

The designation of a student's class shall be determined by the number of academic credits completed. The designations are as follows:

#### Bachelor's Degree

	<b>Credits</b>
First-year	0-26.9
Sophomore	27.0-56.9
Junior	57.0-86.9
Senior	87.0 and over

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### College-Level Examination Program (CLEP)

The University considers credit for most of the 30 specific subject CLEP exams providing the student has not previously attempted a similar course of study at a college level. Scores acceptable for credit are comparable to attaining a level of accomplishment equal to a B in a graded course situation. Individual exams may earn a student three, six, or eight semester hours of credit depending on the nature and scope of the material covered. Credit is not granted for the general exams.

Credit granted for CLEP Examinations may be applied toward distribution requirements and to the total semester hours specified for a particular degree program when approved by the dean of the college/school in which the student is subsequently a candidate for a degree. Information about CLEP is available at the Office of Transfer Affairs, 360 Waterman Building.



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### Course Add/Drop

Courses may be added or dropped only during the first ten instruction days of the semester. After the first five instruction days the instructor may not allow the course to be added if material may not be made up (e.g. laboratories) and if the absence of this work would seriously affect the quality of the student's educational experience.

Drops will only be allowed after the tenth day of instruction if a student was enrolled by administrative error and did not attend the class. The disposition of such cases is handled by the Registrar's Office.

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### Course Withdrawl

From the eleventh day of instruction to the end of the ninth week of classes, students may withdraw from courses. To do so, students must complete a Course Withdrawal Form, consult with their advisor, and obtain the instructor's signature. The student must deliver the form to the Registrar's Office no later than 4 p.m. on Friday of the ninth week of classes. Students give a copy to their dean for information purposes. A grade of W will be assigned by the instructor(s) and recorded on the student's permanent record.

Between the end of the ninth week and the last day of classes, students may withdraw from one or more courses only by demonstrating to their college/school studies committee, through a written petition, that they are unable to continue in the course(s) due to circumstances beyond their control. Such petition must contain conclusive evidence, properly documented, of the illness or other situation preventing completion of the course(s). Acceptable reasons do not include dissatisfaction with performance or expected grade, with the course or instructor, or desire to change major or program. If the petition is approved, a grade of W will be assigned by the instructor(s) and recorded on the student's permanent record. If the petition is denied, the instructor(s) will assign a final grade (A-F) in accordance with the same criteria applied to all other students in the course(s).

Withdrawn courses are included in the number of credits used for billing purposes. No withdrawals will be permitted after the last day of classes. In all instances, withdrawal grades remain on the permanent academic record, but will not affect the grade-point average.

### Retroactive Academic Adjustment

The University will consider requests for late withdrawal and retroactive academic adjustments when those requests are accompanied by appropriate information. To

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receive consideration, a student or his/her authorized representative must submit to his/her dean's office a completed Consultation Form for Medical Withdrawal and Incompletes. Forms are available in deans' offices.

Students may appeal the academic adjustment decision of their school or college to the Provost's Office. If the appeal is based upon a certified disability and recommended as an appropriate accommodation, students may appeal the academic adjustment decision of their school or college as outlined in Policies and Procedures for Students with Disabilities under the section entitled "Protocol for Dispute Resolution." All appeals must be submitted in writing. Decisions regarding adjustments to academic records are distinct and separate from refunds. Any refund, including tuition, financial aid awards, fees, room, and board, will follow federal and institutional guidelines. The effective date for any refund will be the date that the completed form was received by the academic dean's office. Questions regarding refunds should be directed to the Controller's Office.

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### Credit by Examination

A degree student may, under the following conditions, receive credit for a course by taking a special examination and paying the special examination fee charge of \$50 per credit hour. The examination fee must be paid prior to taking the examination.

A request for such an examination must be made in writing at least one month before the date of the examination, and it must be approved by the student's advisor, the chairperson of the department in which the course is given, and the dean, in that order. The student must neither have audited, previously received a grade or mark, nor have attempted a prior special examination in this course at UVM or at any other institution of higher education. Only specific University courses may be challenged using special examination. Readings and Research, Honors Research, etc., are specifically excluded. Special Topics may be challenged only if that course is offered during the semester in which the special examination is being requested. The student may not take a special examination in a course whose content is presupposed by other courses the student is currently enrolled in or has already taken. In cases of uncertainty, the department chairperson shall decide whether it is appropriate for the student to take a special examination for credit in a particular course. Upon passing the special examination, as determined by the examiner and the chairperson of the department in which the course is given, the student receives credit, but not a grade, for the course. Credit by examination forms are available in the Office of the Registrar, 360 Waterman Building.

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### Credit for Academic Learning Integrated with Volunteer Experience (ALIVE)

Through this program, the University of Vermont offers college credit to members of AmeriCorps\*VISTA (Volunteers in Service to America). VISTA members participating in ALIVE can earn up to nine undergraduate or graduate credits in a variety of disciplines for structured reflection of their service experience. VISTA scholars will attend workshops, create portfolios and work with faculty advisors during residency weekends on campus that will not detract from their time serving in communities. UVM will annually award six scholarships to Vermont VISTA scholars who participate in ALIVE.

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### Credit for Calculus

Credit will be given for [MATH 021](#), or [MATH 022](#) and [MATH 121](#), according to the following guidelines.

May receive credit for [MATH 021](#) provided the student:

1. Has not taken the advanced placement test in mathematics; and
2. Has not attempted MATH 021 for credit at UVM; and
3. The average of the grades received in [MATH 022](#) and [MATH 121](#) is B or better; and
4. Received a B or better in [MATH 121](#).

May receive credit for [MATH 022](#) provided the student:

1. Has not taken the advanced placement test in mathematics; and
2. Has not attempted MATH 022 for credit at UVM; and
3. Received a B or better in [MATH 121](#).

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## Policies and General Information

### Credit for Military Service

University of Vermont degree students may have their military service record reviewed for possible transfer credit. Veterans should present form DD 214 to the Office of Transfer Affairs; active duty personnel should have form DD 295 sent directly from the educational officer on the base. Army personnel seeking credit other than Physical Education should have an AARTS transcript sent directly from: AARTS transcript, Manager, AARTS Operations Center, 415 McPherson Ave., Ft. Leavenworth, KS 66027-1373. Transcripts of examinations sponsored by the Defense Activity for Non-Traditional Educational Support (DANTES) are available at a nominal charge from: DANTES Contractor Representative, Educational Testing Service, P.O. Box 2819, Princeton, NJ 08540. All documents except form DD 214 should be sent directly to the Office of Transfer Affairs, University of Vermont, 360 Waterman Building, Burlington, VT 05405.

Students should contact the Office of Transfer Affairs for more information.

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## Policies and General Information

### Dean's List

Dean's List status is awarded to full-time undergraduate students with a cumulative grade-point average of not less than 3.0 who stood in the top 20 percent of each class of their college/school during the preceding semester. The dean's lists are published at the beginning of each semester. Full-time enrollment in this case shall be a minimum of 12 credit hours in courses in which grades of A, B, C, D, or F can be given.

In addition, each semester a Continuing Education Honors List recognizes the top 20 percent of non-degree students who have had a long association with UVM and achieved a high cumulative grade-point average.



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## Policies and General Information

### Degree Requirements for Undergraduates

#### College and School Requirements

Undergraduate degrees are conferred on the recommendation of the colleges/schools. Specific degree requirements may be found in the catalogue sections devoted to the respective colleges/schools.

#### Grades

To be eligible for graduation, a student must have attained a cumulative grade-point average sufficient to meet the minimum requirements for the college/school in which the student is officially enrolled. Beginning with the class of 1984, the minimum grade-point average for graduation is 2.00. Grades in courses accepted for transfer credit are excluded in computing this average.

#### UVM Residency in Last 30 of 45 Credit Hours

Every degree candidate must have taken 30 of the last 45 credit hours (15 of the last 30 for two-year students) in residence at the University before being awarded their degree. An exception to this rule exists for those students who have completed three years of premedical study in the University and are awarded their degrees after successful completion of one year of study in any approved college of medicine. Other exceptions to this rule may be made only upon decision of the dean or the appropriate faculty committee of the student's college/school.

#### Second Bachelor's Degree

A student may earn more than one degree by satisfying all of the requirements for those degrees.

## Physical Education Requirement

Two physical education credits, normally completed during the first or sophomore year, are required of all undergraduate students in four-year programs. These credits will be included in the total number of hours required for graduation. Students may opt to take physical education on a pass/no pass basis. Medical examinations are required of all new students. Those with serious conditions may be given restricted work or may be excused by the Director of the Student Health Center.

Students pursuing two-year degree programs shall be required to complete one credit of physical education course work. Students 25 years of age or older at time of admission or readmission are exempt from physical education requirements.

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## Policies and General Information

### Degree Student Status

Undergraduate Degree Students are students who have presented appropriate credentials for undergraduate admission and have been accepted as students in a degree program. The following four actions apply only to degree students.

#### Intercollege Transfers

Degree students may transfer to another college/school within the University. To do so, a student must complete a Change of Major/College form and obtain the approval of the deans of the two units involved. Students wishing to transfer must have a cumulative GPA of 2.0. A cumulative GPA of 2.5 is required for transfer admission into teacher licensure programs in the College of Education and Social Services. Transfers will be approved only if space is available and may be conditional upon students satisfactorily completing requirements set out by the new college/school.

In the case of veterans receiving educational benefits through the Veterans Administration, the change must be brought to the attention of the Registrar's Office, 360 Waterman Building, where a Change of Program or Place of Training Form #22-1955 must be completed and submitted for approval to the Veterans Administration.

#### Withdrawal

Degree students who wish to withdraw from the University must first notify their academic dean in person or writing.

#### Readmission to the University

Degree students who have left the University for one semester or more must write to their dean to request readmission. Students must apply for readmission by October 31 or March 31 preceding the appropriate semester of return.

## Leave of Absence

A leave of absence means that a student in good standing, who is eligible for continued enrollment, ceases to be enrolled and is guaranteed readmission.

1. Students submit a written application for a leave of absence to their college/school prior to the beginning of the semester that the leave will take effect. To be confirmed, leave forms must be signed by both the student and their dean.
2. Leaves are granted for a finite period of time, and normally may not exceed four semesters. A leave normally may not be granted to students on academic trial or disciplinary probation.
3. While on leave, the student's status is temporarily inactivated. A leave of absence guarantees an individual's readmission only if the student confirms intent to return by the closing date for a normal readmission application (October 31 and March 31 preceding the appropriate semester). A leave does not guarantee housing upon the student's return.
4. Unused financial aid will not be carried over. Upon readmission, students must reapply for financial aid according to Office of Financial Aid policies and procedures in effect at that time.

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## Policies and General Information

### Equal Employment Opportunity and Affirmative Action Policy

The University of Vermont and State Agricultural College is committed to a policy of equal employment opportunity and to a program of affirmative action in order to fulfill that policy. The University will accordingly recruit and hire into all positions the most qualified persons in light of job-related requirements, and applicants and employees shall be treated in employment matters without regard to unlawful criteria including race, color, religion, national origin, sex, sexual orientation, disability, age or status as a disabled or Vietnam-Era Veteran as these terms are defined under applicable law.

In addition, the University of Vermont recognizes that sexual harassment is a form of unlawful sex discrimination, and it is therefore the policy of the University that sexual harassment will not be tolerated.

Further, employees and applicants will not be subjected to harassment because they have engaged in or may engage in the following: filing a complaint; assisting or participating in an investigation, compliance evaluation, or any other activity related to the administration of the Vietnam Era Veterans' Readjustment Assistance Act of 1974 ("VEVRAA"), Section 503 of the Rehabilitation Act of 1973 ("Rehabilitation Act"), or the Affirmative Action provisions of federal, state or local law; opposing any act or practice made unlawful by VEVRAA, requiring equal employment opportunities for individuals with disabilities, disabled veterans, or veterans of the Vietnam Era; or exercising any rights under VEVRAA, or the Rehabilitation Act.

Questions regarding this policy statement or compliance with its provisions may be directed to Wanda Heading-Grant, Executive Director, Office of Affirmative Action and Equal Opportunity, University of Vermont, 428 Waterman Building, Burlington, VT 05405 (802-656-3368). Questions may also be directed to government agencies having oversight and enforcement authority with respect to the referenced laws. A complete listing of such agencies may be obtained from the Office of Affirmative Action and Equal

## Opportunity.

**Sources:** Titles VI and VII of the Civil Rights Act of 1964; Immigration and Reform and Control Act of 1986; Title IX of the Education Amendments of 1972; the Equal Pay Act of 1963; the Age Discrimination in Employment Act; the Age Discrimination in Employment Act of 1967; the Age Discrimination Act of 1975; Sections 503 and 504 of the Rehabilitation Act of 1973; the Americans with Disabilities Act of 1990; Section 402 of the Vietnam-Era Veterans Readjustment Assistance Act of 1974; the Uniformed Services Employment and Reemployment rights Act of 1994; Executive Order 11246 as amended; the Vermont Fair Employment Practices Act; and such other federal, state and local non-discrimination laws as may apply.

**Note:** This Statement of Policy is the official University of Vermont Equal Employment Opportunity/Affirmative Action Policy Statement and supersedes all prior policy statements regarding its subject matter. It may be modified only by written statement issued by the President as Chief Executive Officer of the University or by formal action by the University of Vermont and State Agricultural College Board of Trustees. This Policy Statement is designed to express the University's intent and commitment to comply with the requirements of federal, state and local non-discrimination laws. It shall be applied co-extensively with such laws, and shall not be interpreted as creating any rights, contractual or otherwise, that are greater than exist under such non-discrimination laws. Persons seeking to participate in employment opportunities offered by the University must consult position and program descriptions to determine criteria for eligibility. All such criteria shall be established in a manner consistent with the legal requirements herein referenced.

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## Policies and General Information

### Examinations

#### Hour Tests

- One or more hour tests are usually given during a semester in each course. These are scheduled by the faculty member within the class periods assigned for the class.
- In a course which has several sections meeting at different hours, a common test for all sections may be given only by arrangement with the Registrar. A schedule of such tests is made up at the beginning of the semester.
- Attendance at hour tests scheduled outside the normal meeting time of the class shall not have precedence over attendance at other scheduled activities or other important commitments of the students concerned. Faculty members must be prepared to give a make-up test for those unable to be present at the time set.
- University academic responsibilities have priority over other campus events. Attendance at (1) regularly scheduled classes have priority over specially scheduled common hour examinations, (2) common hour examinations have priority over attendance at other activities.

#### Final Exams

- The examination period at the end of each semester is set by the official University calendar.
- Final examinations shall be given only during the regular examination period except by permission of the dean of the college/school on request of the chairperson of the department. No examination (regular or final) shall be given during the last week (the last five instructional days) of the semester except lab exams given in courses with specific lab sections.
- The time and place of each final examination are determined by the Registrar and a schedule is circulated and posted. Any change in the scheduled time or place

may be requested by the chairperson of the department concerned when conditions seem to warrant such special arrangement. Decision on such requests rests with the Registrar.

- In every course in which a final examination is given, every student shall take the examination unless excused by the instructor.
- Students having a conflict in their final examination schedule must notify the faculty concerned of such conflict not later than the close of business one week prior to the last day of classes for the semester in which the conflict arises.
- Students who are absent from a final examination for any reason must report that fact and the reason, in person or in writing, to their instructor within 24 hours. If the absence is due to any situation beyond the reasonable control of the student (e.g. illness or family tragedy), the instructor must provide the student with the opportunity to complete the course requirements. At the instructor's discretion, this may be an examination or some other suitable project. The instructor may require evidence in support of the student's reason for absence.
- If the absence is not reported as provided above, or is not excused by the instructor, the examination is regarded as failed.
- No student shall be required to take three or more final examinations in one 24-hour period.
- Unless a mutually agreeable alternative time can be reached by the student and the instructor, the scheduled make-up will occur the next day after the regularly scheduled examination. These considerations are subject to the following constraints: all exams will be given in the final exam period and all conflicts must be resolved before the start of the final exam period.
- Students will select which of the three examinations they wish to take at an alternative time. In cases where the instructors in all three sections feel it is impossible to give the examination at an alternative time, and all conflicts are in the same academic unit, the appropriate dean's office, in consultation with the faculty involved, will establish which of the three examinations will be taken as a make-up. If the unresolved conflict involves more than one college, the deans of the units in question will resolve the matter. If the deans involved cannot reach agreement, then a person from the Provost's Office will establish which of the three examinations will be taken as a make-up.
- All final examination materials should be retained for at least one month after the final examination session in case any questions arise concerning grades and to afford students the opportunity to review their graded final examination papers if they wish to do so.



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### Exchange Programs with New England State Universities

The six New England land-grant universities (Universities of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut) participate in an exchange program to enable students at the subdegree level to take advantage of a course or combination of courses not available at the home institution. In order to participate in the program, state university students must:

1. Identify a course or combination of courses related to their area of academic interest and not available on the home campus.
2. Receive permission from the appropriate university exchange authorities at both the sending and receiving institutions.
3. Meet minimum eligibility requirements which include the following: In general, students must be in good standing and have at least a 2.50 grade-point average; must be degree candidates; and must be at least first semester sophomores (application may be made as early as the second semester of the first year). There is no upper limit in terms of class standing on participation.

Exchanges may not exceed a total period of two academic semesters, but these need not be taken consecutively. Summer sessions are not considered part of the exchange program. Course work approved by the student's host institution and completed satisfactorily is fully transferable to the home institution. Transferability of grades and inclusion in grade-point averages are subject to home institutional policy.

The student will pay normal tuition and required fees to the home institution and room and board (where applicable) to the host institution. Students on financial aid must contact their home institution's financial aid office to determine eligibility for continued scholarship assistance.

Participation in the exchange program will not affect a student's residence status either at

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the home or host institution, nor does participation improve or prejudice possibilities for transfer.

For information, contact the Office of the Provost, 349 Waterman Building, University of Vermont.

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## Policies and General Information

### FERPA Rights

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law

enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by The University of Vermont to comply with the requirements of FERPA. The name and address of the office that administers FERPA:

*Family Policy Compliance Office*

*U.S. Department of Education*

*600 Independence Avenue, SW*

*Washington, DC 20202-4605*

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### Financial Aid for Undergraduate Students

The University has many programs to help finance a UVM education. These include financial aid awards for students with a demonstrated need for financial assistance and Scholarship awards for students whose academic achievements and other accomplishments and qualities promise to enrich the University in exceptional ways.

For more information, visit the [Financial Aid Web site](#) .

### Financial Aid

The Financial Aid Office works to forge a working partnership between federal, state, and private educational funding sources, the University, and our students. We are also committed to helping students learn more about sound personal financial management and about the rights and responsibilities associated with financing a university education. Your connection with the Financial Aid Office begins in the earliest stages of your application process and continues through graduation from UVM.

For any questions about financial aid here at UVM please do not hesitate to contact us via the information below:

Phone: 802-656-5700

Email: [financialaid@uvm.edu](mailto:financialaid@uvm.edu)

Fax: 802-656-4076

### Eligibility

Students who wish to be considered for assistance in meeting their University expenses with student loans, grants, or employment should consider applying for federal, state, and University financial aid. To be eligible to apply for financial aid, a student must be a

U.S. citizen or a permanent resident. (Limited financial aid funding is available for international students; inquiries should be made to the Scholarship Coordinator in the Admissions Office.) To be considered for aid, a student must also be enrolled at least half-time (six credits) in a degree program. Audited credits or Credits by Examination cannot be considered as part of the credits in determining financial aid eligibility.

### **Application Procedures**

Incoming first-year and transfer students who wish to apply for aid may do so by completing and mailing the Free Application for Federal Student Aid (FAFSA) after January 1, 2005 and before February 10th, 2005; and providing any verification documentation requested by the UVM Office of Financial Aid. Returning UVM students should complete their FAFSA between January 1st, 2005 and March 1st, 2005. Applications submitted after these dates will be processed in chronological order, subject to the availability of funds. In addition to following the procedures listed above, all students should apply to their state financial aid grant agency for assistance. Vermont students should apply to the Vermont Student Assistance Corporation (VSAC), P.O. Box 2000, Champlain Mill, Winooski, VT 05404.

### **The Financial Aid Package**

The University of Vermont participates in all federal and state financial aid programs and must adhere to their requirements. Additionally, the University makes available a variety of grant and loan opportunities from its own operating and endowment funds. While federal and state aid is based exclusively on student need, eligibility for University funds is based on student need and on the strength of the applicant's academic record. Applicants will be considered for all aid programs for which they are eligible. Aid is most often awarded in combinations or "packages" of the various types of aid. Almost all awards will include some student loan.

Student loans are available to all students regardless of need in the form of Unsubsidized Federal Stafford Loans. To be considered, however, a student must APPLY for aid. After a determination of eligibility has been made by the Financial Aid Office, students will be notified if they qualify for "need-based" aid or for an Unsubsidized Federal Stafford Loan.

In the awarding of UVM institutional financial aid funds, a student's academic record is taken into consideration. Federal and state financial aid funds are allocated solely on the basis of student and parent financial need.

### **Satisfactory Academic Progress Standard for Financial Aid Recipients**

In order to maintain eligibility for federal Title IV financial aid, matriculated undergraduate and graduate students must progress at a rate that ensures completion of their degree programs within a reasonable time frame. Beginning with the first semester of study in a degree program at The University of Vermont, a federal financial aid recipient is required to accumulate earned hours totaling at least 75 percent of the number of hours attempted. Each student's progress will be measured at the end of each year of

attendance to ensure adherence to this standard.

Beginning with the third academic year (after the achievement of 60 credit hours), all students must have attained at least a 2.0 overall cumulative grade-point average in order to continue to qualify for assistance.

Any student not meeting the standard described above will be placed on Financial Aid Probationary Status for a one year period (during which aid eligibility will be maintained). Should the student not meet the required credit standard or cumulative grade point average standard by the end of that probationary year, the student's eligibility for additional financial aid will be withdrawn until the student has met the required standard.

Students whose aid is withdrawn for not maintaining academic progress according to the standard outlined above may appeal their loss of aid by writing to the Office of Financial Aid. The decision to withhold aid eligibility will be reviewed by an appeals committee for circumstances which warrant special consideration. Such circumstances may include but are not limited to medical emergencies or family crises which resulted in the student's not meeting the stated requirements.

### **UVM Refund Policy**

A student who cancels, withdraws for personal or medical reasons, is suspended or is dismissed will receive an adjustment of charges in accordance with the following schedule. Room and meal plan payments will be refunded on a prorated basis. Medical withdrawals require approval of the University Student Health Center.

- 100% tuition and fees credit adjustment prior to the end of the first two weeks of classes,
- 50% tuition and fees credit adjustment through the third week of the semester and,
- 25% tuition and fees credit adjustment through the fourth of the semester.
- No adjustment after the fourth week of the semester.

Due to federal requirements, financial aid recipients who withdraw prior to 60% completion of the semester will have their federal, state, and institutional funds adjusted according to current regulations.

Note: The effective date of any cancellation or withdrawal is the date the student's Dean receives such notification in writing. The Dean may recommend to the Registrar that an exception be made to this policy only in extenuating circumstances. In no case will an adjustment be made after the first day of classes of the following semester.

### **Changes in Credit Hour Load**

A student who adds courses during the semester will be billed additional tuition and fees applicable to the adjusted credit hour load. A student who drops courses during the semester will receive a tuition credit based upon the effective date as described above. A student who withdraws from a course during the semester will receive a tuition credit based upon the effective date as described above. However, the course will remain on the student's record. Financial aid will be reviewed and adjusted for any changes to the

course load.

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### Grade Appeals

Students who feel that they have received an unfair grade should first contact the Registrar's Office to verify that the grade submitted by the instructor is the same as that printed on the grade report. If the grade has been reported correctly, a student should next contact the instructor, department chair, and dean of the college/school in which the course is offered (in that order) to discuss the matter. A decision to change a grade can be made only by the instructor.

Grade changes must be made by the instructor and approved by the student's dean by the end of the first month of the following semester unless an extension is granted by the student's dean.

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### Grading

Grades are reported and recorded as letter grades. Student grade-point averages (GPA) are calculated from quality point equivalents noted here:

#### Grade Points per Credit Hour

A+ Excellent	4.00
A Excellent	4.00
A- Excellent	3.67
B+ Good	3.33
B Good	3.00
B- Good	2.67
C+ Fair	2.33
C Fair	2.00
C- Fair	1.67
D+ Poor	1.33
D Poor	1.00
D- Poor	0.67
F Failure	0.00

In certain instances, grades are assigned that will appear on the transcript, but will not be used in grade-point calculation. These grades are:

XC	Extended Course (see below)
AU	Audit (see below)
INC	Incomplete (see below)
P/NP	Passed/Not Passed (see below)

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- S/U Satisfactory/Unsatisfactory (see below)  
M Missing (Grade not turned in by the instructor.)  
W Withdrawn

**XC:** This grade is assigned when the nature of the course work makes it unreasonable or impossible for the student to complete the required work within the regular semester.

**AU:** Students wishing to regularly attend a course, but not receive credit, may register as an auditor, with the approval of the dean and the instructor. Auditors have no claim on the time or service of the instructor. Students must meet minimum levels of performance set by the instructor at the time of registration in order to receive an audit grade. Tuition is charged at the applicable rate. Under no circumstances will changes be made after the add/drop period to allow credit for courses audited.

**INC** grades may be assigned when course work is not completed for reasons beyond the student's control. Incompletes require the approval of the student's college/school dean. The incomplete course requirement will be satisfied at the earliest possible date, but not longer than the beginning of the corresponding semester of the next academic year. In cases of laboratory assignments, the student must complete all work the first time that the laboratory experience is offered again. Instructors will fill out an incomplete card and forward it to the student's dean and include the reason for the incomplete as well as the completion date agreed to by the student and instructor. It is the student's responsibility to learn from the dean's office whether the request has been approved, the date of completion, and, from the instructor, the nature of all outstanding requirements.

Incompletes may be approved for the following reasons: Medical, personal tragedy or academic. In all instances, students must contact the appropriate dean's office to obtain necessary applications information.

**P/NP:** Degree program students, not on academic trial, are permitted to take up to six courses (three courses for two-year students; or as many courses as they have semesters remaining for future transfer students) on a pass/no pass basis, beginning in their sophomore year (second semester of the first year for two-year students). Courses in the student's major department, either for the major or for the degree, and electives within the distribution requirements of a department may not be taken on a pass/no pass basis. This option may be used without condition for free electives. It also may be used for physical education (activity) courses, whether taken to fulfill a requirement or as electives, and shall not be counted as a part of the six standard courses described above.

Students must complete all work normally required in these courses to receive full credit toward graduation for passing them. The instructor will not be informed of the student's status and the Registrar will record grades of D or higher as PASS and grades of F as NO PASS. The grade submitted by the instructor will not become available to the student nor to any third party.

To apply, a PASS/NO PASS Request Form, obtained from the Registrar's Office, must be approved by the student's academic advisor and submitted to the Registrar's Office

during the first two weeks of the semester. Requests to be removed from that status must be filed during the same period. Any question about a course or courses being appropriately elected as pass/no pass for a student will be resolved by the student's college/school dean.

Note: Non-degree students may not take courses on pass/no pass basis.

**S/U** is used in courses where the A-F grade is inappropriate, such as in seminars, internships, practica, etc. Designations of S, satisfactory, and U, unsatisfactory, are used to indicate levels of performance for credits received in Thesis or Dissertation Research and may be used to indicate levels of performance in a Seminar. There are no quality points associated with the letter grades of S and U. The student will receive the appropriate credit hours toward graduation for the S grade, but not for the U grade. Courses using this grading system are so indicated in the catalogue description. The S/U is available only on a whole course basis and is available for courses that count towards degree requirements.

Note to graduate students: A student may be dismissed from the Graduate College if two grades or more below a B (3.00), or the designation of U in Thesis or Dissertation Research or Seminar are received.

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## Policies and General Information

### Graduate Course Enrollment for Undergraduate Students

Senior undergraduates may enroll for up to six graduate credit hours at UVM under the following circumstances: courses must be available for graduate credit; total enrollment including the graduate course must not exceed twelve credit hours in the semester in which the course is taken and the course must not be computed as part of the bachelor's degree. Permission to seek graduate credit must be obtained from the Graduate Dean in writing by the dean of the undergraduate college/school. Graduate credit can be used only at UVM if the course is judged appropriate by the student's advisor for the particular graduate program.

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Faculty and Administration

## Policies and General Information

### Graduating with Honors

The bachelor's degree may be conferred with honors, by vote of the Faculty Senate, in recognition of general high standing in scholarship. Three grades are distinguished and indicated by inscribing on the diploma the words cum laude, magna cum laude, or summa cum laude.

Honors are determined in the following manner: Within the graduating class of each college/school, students in the top one percent will receive summa cum laude; the following three percent will receive magna cum laude; the next six percent will receive cum laude. The total number of honors awarded will not exceed ten percent of the graduating class of each college/school.

Honors will be calculated on all grades received at UVM. To be considered, a student must have taken at least 60 credits at UVM in which a letter grade of A, B, C, D, or F has been awarded.

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## Policies and General Information

### Health Services

#### Center for Health and Wellbeing

The Center for Health and Wellbeing offers counseling, medical and women's clinics, nutritional counseling, physical therapy and athletic medicine, a health promotion program, a drug and alcohol education program, laboratory services, and 24-hour emergency telephone advice (802) 656-3350. The comprehensive student fee covers most primary services. Pharmacy, lab, X-ray, PT, and psychiatric services are billed to the student and typically reimbursed by insurance. Visit the [Center for Health and Wellbeing Web site](#)  for more complete information.

#### Counseling

Over a thousand students use the services of the Counseling Center each year for improving academic success, for mental health counseling, and personal growth work. All records in the Counseling Center are confidential, the names of clients are not available without the student's permission. The staff consists of women and men of varying backgrounds, ethnicity, ages, and physical abilities. Full-time students are eligible for services. Part-time students are eligible for consultation and referrals.

The Counseling Center is accredited by the International Association of Counseling Services and adheres to the code of ethics of the American Psychological Association. The center is located in Jacob's House on the corner of Main Street and South Williams, (802) 656-3340.

#### Student Health/Medical and Women's Health Clinics

The Clinics are available to all students (except those in the College of Medicine) for primary and preventive health care. Most of these services are covered by the comprehensive student fee. Students entering the University are required to furnish the

Center with a complete immunization record, to include two valid measles (Rubeola) vaccinations, and a medical history. A physical exam is not required.

### **Health Insurance**

The University makes available to students an optional health insurance plan that provides hospitalization and some outpatient benefits. Full-time students who do not provide proof of adequate health insurance at the time of registration will be required to purchase the University-sponsored plan.

The Burlington area has a large and sophisticated medical community of which the Center for Health and Wellbeing is a part. Students requiring specialty care are referred to specialists in the area. When necessary, hospitalization is usually arranged at Fletcher Allen Health Care, a teaching hospital located on the edge of the main campus.

Note: The University Health Center (UHC) is not the UVM Center for Health and Wellbeing.



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## Policies and General Information

### Honorary and Recognition Societies

Honorary and recognition societies at The University of Vermont recognize student contributions to the UVM community and their leadership in campus life.

University honorary societies include [Boulder Society](#) , which acknowledges outstanding senior men; and *TOWERR*, which acknowledges outstanding senior women.

National honorary societies represented on campus are as follows:

[The Phi Beta Kappa Society](#)  established the Vermont Alpha Chapter at the University in 1848 and the local chapter was the first in Phi Beta Kappa to initiate women into membership. Initiates are chosen on the basis of high scholastic standing with emphasis on a broad distribution of liberal studies. This is interpreted to mean course work in all seven College of Arts and Sciences distribution categories including intermediate-level foreign language study. Membership criteria are published on the Web; interested students and advisors should consult the chapter president.

[Mortar Board](#)  is a national society for senior women and men. Although membership in Mortar Board comes as a high honor for a UVM student in recognition of outstanding service, scholarship, and leadership, it is also a challenge for continued unselfish service in the best interest of the college campus.

[Golden Key National Honor Society](#)  recognizes the top fifteen percent of juniors and seniors in all fields of study. The society emphasizes scholarship and community service.

The *Society of Sigma Xi*, established in 1945, initiates those who have proven their ability to do research in one of the sciences, including students who have a high scholastic standing.

The alpha chapter of *Nu Delta Epsilon* was established at UVM in 1993. It is the first

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national honor society to recognize non-degree students who excel academically and exhibit a strong commitment to higher education and personal achievement.

Other national honorary societies include: Alpha Omega Alpha, medicine; Alpha Zeta, agriculture; Beta Gamma Sigma, business administration; Kappa Delta Pi, education; Sigmae Theta Tau, professional nursing; Tau Beta Pi, engineering; Omicron Nu, home economics; Delta Sigma Rho-Tau Kappa Alpha, debating; Phi Alpha Theta, history; Psi Chi, psychology; Eta Sigma Phi (Iota Chapter), classical studies; Alpha Kappa Delta, sociology; Sigma Phi Alpha, dental hygiene; Lambda Alpha, anthropology; Chi Epsilon, civil engineering; Xi Sigma Pi, forest resources; Ethan Allen Rifles, outstanding students in Reserve Officers' Training Corps; Champlain Sabres, a military fraternity; and Phi Eta Sigma, outstanding first-year students.

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## Policies and General Information

### Honors and Awards

#### Doctoral Student Scholar Award

Through their research and scholarship, doctoral students make significant contributions to the University, state and broader society, and their disciplines. The UVM Doctoral Student Scholar Award celebrates research and scholarship, and graduate education generally, by recognizing exemplary and outstanding scholarly work completed by UVM doctoral students. Normally, two awards are made each year to graduating students, one in the biomedical, life, physical and applied sciences, and one in the social sciences. The Doctoral Student Scholars for 2004 are Jacob Diaz (Educational Leadership and Policy Studies) and Christine Negra (Plant and Soil Science).

#### Graduate Teaching Assistant Award

Each year, a number of graduate students who serve as Graduate Teaching Assistant are recognized for their teaching excellence; one of those is named Graduate Teaching Assistant of the Year. The most recent recipient of the Graduate Teaching Assistant of the Year Award is Stevenson Flemer, Chemistry, 2004.

#### Graduate College Research Day

In the spring each year, the Graduate College recognizes formally the research undertaken by graduate students. A full day is devoted to talks and poster presentations by students from all of the disciplines. The entire University community has the opportunity to see and hear about the high quality research that graduate students conduct.

#### University Scholar Awards

The University Scholar Awards program was established by the Graduate College to

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recognize outstanding and sustained contributions of University faculty to research and scholarship in their disciplines. Each year, four faculty members are selected for this award. For the academic year 2004-2005 the recipients are Richard Albertini (Medicine), Dwight Matthews (Chemistry), Beth Mintz (Sociology) and David Scrase (German and Russian).

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## Policies and General Information

### Housing

All students are encouraged to reside in one of a variety of housing options, ranging from theme-based suites in our Living/Learning Center to substance-free living in Redstone Hall.

#### Undergraduate Housing

All first-year and second-year students are required to live on campus. Over 200 staff members in Residential Life are committed to making on-campus living experiences as productive and rewarding as possible.

Exceptions to living off campus will be heard prior to June 1 for students residing at home with parents or legal guardians in Chittenden County, or for first-year or second-year students who claim independent financial status in accordance with the guidelines provided by the UVM Financial Aid Office, or married, with a partner, or with dependent children. Housing for returning students is determined by a lottery held each spring. Second-year students who are members of a sorority or fraternity and want to live in their sorority or fraternity house must submit their request through their President and Chapter Advisor to the Department of Residential Life by early March.

Students living in the residence halls must have room and meal plan contracts. Contracts are binding for the full academic year unless canceled for due cause with the approval of the Department of Residential Life. In August, new students will receive notification of their housing assignments. Rooms may not be occupied until the date specified. Students are expected to leave the residence halls no later than 24 hours after their last examination or by 8:00 p.m. on the last day of final examinations.

The Department of Residential Life is located in Robinson Hall, Redstone Campus, (802) 656-3434, or visit the [Residential Life Web site](#) .

## Upper Division and Graduate Housing

### Single Rooms

One of the five residence halls on UVM's Trinity Campus is a designated housing option for upper division, graduate, medical, and non-traditional students and is designed to respond to the various and special needs of this student population. Although Trinity Campus is part of the main campus, it is set apart from other residence halls and classroom buildings. There are 20 single rooms, each furnished with a bed, dresser, desk, and closet. The contract is for a nine-month period, with separate options for the summer.

### Cottages

There are also opportunities for graduate students, medical students, and non-traditional students to live in cottages also located on UVM's Trinity Campus. The cottages are small houses with single and double bedrooms. Each cottage can house between four and eight students. Amenities in each cottage include furnished living room space, bathrooms, and a full kitchen with adjacent parking. The contract is for a 12-month lease period.

### Student Family Housing

There are 115 University-owned apartments designated for student families located just outside Winooski at Fort Ethan Allen. About five miles from campus on Route 15, the apartments are close to shopping centers, hospital, and educational institutions. These apartments have several amenities.

Detailed rental information may be obtained from the Ethan Allen Housing Office, 14 Ethan Allen Avenue, Fort Ethan Allen, Colchester, Vermont 05446, (802) 654-1735.

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## Policies and General Information

### Independent Study Courses

Independent study is a course taken for credit, which is tailored to fit the interests of a specific undergraduate student, and which occurs outside the traditional "classroom/laboratory setting."

Independent study is carried out under the direct supervision of a faculty member having expertise in a particular area of investigation. Consequently the project will be done in the department primarily responsible for the field of study. Prior to enrollment in independent study, students must obtain the approval of their advisor, faculty sponsor, and the faculty sponsor's department chairperson.

Independent study may be taken for variable credit. The amount of credit to be granted should be mutually agreed upon by the student and the faculty sponsor prior to registration. When a project is to cover more than one term, the designation XC (extended course), rather than incomplete, should be used on the final grade sheet for the first term of work.

Academic units offering independent study will be responsible for administering such work. Specific guidelines, which define the responsibilities of both faculty and student for administering the independent study, are noted below. Alternative guidelines that incorporate these basic points are acceptable.

#### Guidelines:

- A. The success of an independent study project is often related to the amount of advance planning expended on the project. Consequently, planning for the project should, whenever possible, be initiated in the semester before the course is taken.
- B. By the end of the add/drop period, students will be required to submit to their faculty sponsor a specific plan which must include, but not be limited to, the

following:

1. The project title
  2. A statement of justification, indicating why independent study is being selected and the reason for undertaking the project, its importance, and how it relates to other work done by the student
  3. A clear and complete statement of project objectives
  4. A concise statement of the plans and methods to be used in order to accomplish each objective
- C. During the first full week of classes the student and the faculty sponsor will meet and prepare a document which includes the following:
1. A schedule of dates when the student and faculty member will meet and discuss progress, including a time plan indicating when various parts of the work are projected for completion.
  2. A list of those ways in which documentation of work can be shown.
  3. A plan for evaluation, which will include the specific work to be submitted for evaluation on the project, and a statement of criteria to be used for evaluation, will also be included.
- D. It is the responsibility of the faculty supervisor to ensure that all the provisions outlined above have been satisfactorily accomplished. Copies of all documents and schedules mentioned must be filed with the department chairperson by the end of the add/drop period. Faculty sponsors should retain the completed projects, along with faculty evaluations, for review, if necessary, by appropriate school/college committees.



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## Policies and General Information

### International Student Admissions

The University welcomes the applications of international students.

#### Academic Documents

International applicants must submit official transcripts of all secondary and post-secondary education, including final examination results. If documents are not in English, certified translations are required. Information regarding certified translation services can be obtained at the applicant's embassy or through [WES](#) : World Education Services, P.O. Box 745, Old Chelsea Station, New York, NY 10113-0745, (212) 966-6311.

#### Transfer Credit for International Students

International students who have attended post-secondary institutions in their home country may be eligible for UVM credit under the Transfer Credit Policy guidelines. International students should submit comprehensive course descriptions and outlines, translated in English, to the Office of Transfer Affairs, 360 Waterman Building, Burlington, VT 05405, USA. Submission of these materials prior to enrollment helps the Office of Transfer Affairs prepare a full credit evaluation prior to enrollment at UVM. All translations must be certified by the school of record, or by an official government translation agency with the seal of the college over the translation. Translations must accompany all original documentation.

#### Standardized Tests

Students applying as first-year candidates must present scores from either the Scholastic Assessment Test (SAT I) or the American College Testing Program (ACT). If English is not the first language, the Test of English as a Foreign Language (TOEFL) is also required. Because the University does not offer an intensive English as a Second

Language (ESL) program, the Admissions Office requires a minimum TOEFL test score of 550 (213 on the computer version). For information about test dates and sites for SAT and TOEFL exams, contact the [Educational Testing Service](#) ☐ in Princeton, NJ (609) 771-7100.

### English as a Second Language (ESL) Programs

The University of Vermont offers a few English-as-a-Second-Language courses intended to ease the transition to studying and living in an English-speaking environment. Interested students with TOEFL scores below the recommended minimum may want to consider transferring to the University of Vermont after studying at a U.S. college or university that offers intensive ESL preparation, although UVM will consider candidates on a case-by-case basis.

The ESL intensive program located the closest to the University of Vermont is at Saint Michael's College, an accredited institution of higher learning in nearby Winooski, Vermont. For full information about Saint Michael's College, write to the School for International Studies, Saint Michael's College, Winooski, VT 05404 (USA Telephone: 802 654-2000, extension 2300).

For further information concerning available programs, contact: [NAFSA](#) ☐: Association of International Educators, 1875 Connecticut Ave. NW, Suite 100, Washington, DC 20009-5728.

### Financial Support for International Students

The University offers a few partial tuition scholarships to international students each year. Most international students pay the full cost of attending UVM; and those attending on nonimmigrant student visas are charged out-of-state tuition rates. All international students are considered; no additional application is required. These are merit-based scholarships.

### Form I-20

The I-20 document is used to obtain an f-1 student visa and can only be issued when the student provides certification that sufficient financial support is available to cover educational expenses for the duration of stay in the U.S. Two pieces of information are required for financial certification:

- A letter or statement from the bank (or supporting agency) indicating an exact currency amount and its U.S. dollar equivalent that demonstrates the availability of adequate funding for at least the first year of studies.
- A signed letter from the sponsor (family member or agency) indicating that the funds in that bank account will be used to support educational expenses at the University of Vermont.

For more information, contact Sarah Strouse, International Student Advisor, [Office of International Education](#) ☐, L/L, B-161, Faculty Box 8, Burlington, VT 05405. Phone: (802)

656-4296. Fax: (802) 656-8553. E-mail: [Sarah.Strouse@uvm.edu](mailto:Sarah.Strouse@uvm.edu).

### **Graduate Study at the University of Vermont**

International students interested in pursuing a graduate degree at the University of Vermont should contact: Graduate College Admissions Office, Waterman Building, University of Vermont, Burlington, VT 05405, (802) 656-3160.

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### Living/Learning Center

The Living/Learning Center is an academic resource whose mission is to create an environment for students to integrate their academic studies and their residential experiences. To expand the intellectual horizons of students, the Center encourages faculty, staff, and student programs that foster innovative and interdisciplinary academic experiences that bring the intellectual life of the University in close alliance with the students' lives outside the classroom. Every program sponsors educational activities to which the entire UVM community is invited, making the Living/Learning Center a focus of campus cultural and intellectual activity. An evening's activities might include a sign language workshop, conversational Russian, artistic performances, gallery exhibits, faculty lectures, or a presentation by one of the Center's programs. In addition to being an academic and student support unit, the Living/Learning Center is also a residence, housing 588 students, as well as faculty and administrative offices, including the Center for Career Development and the Learning Cooperative.

The foci of the Living/Learning Center are the 30 to 35 academic programs, each of which is a year-long plan of course work, independent study, seminars, field trips, and other special activities which support a specific program theme. Recent programs include: Africa House, Geology and Ecology of the Lake Champlain Basin, La Maison Francaise, Creative Writing, The Art of Photography, and Women in Science. Programs are designed and directed by students or faculty members and reflect educational interests of the program leaders and participants. The Center provides a unique environment for each of the University schools and colleges to offer particular curricular elements in an atmosphere which fosters broad opportunities for intellectual discourse.

The first-year, sophomore, junior, and senior students who reside in the Center live with fellow program members in five-, six-, or seven-person suites adjoining a living room and private bathroom facilities. This fosters close friendships and communication among the program members. Suites are located in each of the five interconnected buildings, as are

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classrooms, laundry rooms, common living rooms and kitchens, as well as apartments for resident faculty and their families. The Center has a reading room/reference library, microcomputer laboratory, music practice rooms, a grocery store, dining hall, preschool, an audiovisual room, Post Office, a central lounge with fireplace, and an art gallery. Through the efforts and expertise of accomplished staff artists, the Center has pottery and photography studios that provide direct program support for the Living/Learning Center community, as well as providing all members of the University community with the opportunity for informal instruction and access to the facilities and equipment.

The Living/Learning Center contributes to the University's mission in its emphasis on the integration of the personal, professional, and intellectual growth of the student. The Center further encourages programs with interdisciplinary, international, and multicultural themes that promote creative excellence. The Living/Learning Center offers the opportunity to be part of a community of people; students, faculty, and administrative staff, who share the goal, work and excitement of improving the breadth and quality of their University experience. To learn more about the Center, visit the [Living/Learning Center Web site](#)  or email us at [living.learning@uvm.edu](mailto:living.learning@uvm.edu).

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## Policies and General Information

### Low Scholarship

Following are the general University regulations relating to low scholarship for undergraduate students. The Studies Committee of each college/school may determine more stringent requirements. Students with questions regarding their academic standing should consult their college/school dean.

#### "On Trial"

This is an intermediate status between good standing and dismissal in which students remain enrolled according to stated academic conditions of their college/school.

Students are placed "on trial" by their dean or designated committee of their college/school. Special academic conditions may be set in each case. Normally the period of "trial" status is one semester.

This policy applies in the following instances:

1. Students, having been dismissed for low scholarship, are placed "on trial" upon readmission.
2. Students may be placed "on trial" if in any semester they have failed one-half or more of their semester hours, but have been permitted to continue in college/school.
3. Students whose records have been consistently below the graduating average or generally unsatisfactory in any semester may be placed "on trial" or continued "on trial" even though they do not come within the provisions that apply to "Separation."

#### Separation

Students are dismissed from UVM if they receive grades below passing in one-half or

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more of their semester hours in any semester, unless they are allowed to continue by action of the designated committee.

Students who fail to meet the condition of their trial or whose record has been unsatisfactory and consistently below the graduation average may be dismissed for low scholarship even though they do not come within the "On Trial" provisions.

Students dismissed for low scholarship must address their application for readmission to their college/school and receive written approval from their dean before enrolling in any University course.

Student dismissed for disciplinary reasons must receive written approval from the Vice President for Student Affairs before enrolling in any University course.

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## Policies and General Information

### Matriculation Status

The Admissions Office requires proof of high school graduation or equivalent for all candidates entering undergraduate degree programs at UVM.

High school graduates must submit a final high school transcript. Recipients of the General Education Development (GED) Certificate should have an official score report forwarded to the Admissions Office in addition to official transcripts of any previous high school or college-level work completed.

The University of Vermont welcomes applications from students who plan to complete high school in three years, provided all entrance requirements and other admissions criteria have been met. Three-year graduates are asked to submit written proof of support from the high school indicating that the school district has approved early graduation and is prepared to issue a diploma.

UVM welcomes applications from home-schooled students. Students are required to meet all the entrance requirements outlined in this catalogue, to submit standardized test results (First-Year candidates only), to document academic work covered by the curriculum, and provide proof of graduation. Home-schooled students must supply the Admissions Office with a copy of the information forwarded by the teacher to the state education department. If entrance requirements cannot be determined from this information, the teacher will be contacted to confirm completion. Official college transcripts are required for any college-level course work. CLEP (College Level Examination Program) results may be used to demonstrate background in required areas. An official transcript of any course work taken at a local high school is also required.

### Acceptable Proof of Graduation



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High School Diploma (Some home-schooled students receive a diploma from their area secondary school.)

- General Education Development (GED) certificates and state certificates.
- A Certificate of Completion of a home-study program if the program is recognized by the student's home state.
- For transfer students only: If a formerly home schooled student has completed two years of college course work comparable to UVM course work and has met all entrance requirements, no proof of graduation is required.

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## Policies and General Information

### Military Studies

The Army ROTC program offers men and women the opportunity to develop leadership and management skills that lead to an officer commission as a second lieutenant in the United States Army, Army Reserve, or Army National Guard.

#### Department Course Offerings

The four-year Military Studies program at UVM consists of a two-year Basic Course (first-year and sophomore year) and a two-year Advanced Course (junior and senior year).

#### The Basic Course

Open to all first-year and sophomore students, the course introduces interested students to the Army, the role of an Army officer, and basic military skills. Other than for Army ROTC scholarship students, the Basic Course incurs no military obligation. Students survey Army opportunities and decide whether to continue on to the Advanced Course and a Army commission as second lieutenant.

#### The Advanced Course

Open to qualified junior and senior students who have either successfully completed the Army ROTC basic course, the Army ROTC Basic Camp, or Army Basic Training and Advanced Individual Training. The course is designed to prepare students for a career as an Army officer. Students are required to successfully complete a 35-day Army ROTC Advanced Camp the summer following the junior year. Upon completion of the Advanced Course and the requirements for the bachelor's degree, graduates are commissioned as Second Lieutenant in the U.S.A. Army, Army Reserves, or the Army National Guard.

Note: Total Allowable credit for Military Studies varies with college/school. Military

Studies course are open to all students, regardless of major or intention to complete the full cadet program. A two-hour weekly leadership laboratory is required for all students enrolled in any MS course. Students interested in pursuing an officer's commission through ROTC should contact the Department.

### Interdepartmental Course Offerings

The Military Studies Department also offers one-credit courses in related fields on behalf of the UVM Department of Physical Education including: [PEAC 014](#) - Orienteering, [PEAC 017](#) - Military Fitness, and [PEAC 019](#) - Backpacking. These courses are open to all UVM students. Students incur no military obligation for taking these courses.

### Army ROTC Scholarships and Financial Aid Scholarships

Two-, three-, and four-year Army ROTC Scholarships paying up to \$17,000 per year are available to qualified applicants. Application for the four-year Army ROTC scholarship is made during the high school senior year by applying electronically at [www.armyrotc.com](http://www.armyrotc.com)

All other Army ROTC scholarship applications are made through the Department.

Note: Private UVM Army ROTC Alumni Scholarships and loans are also available for ROTC students.

### Financial Aid

Non-scholarship contracted junior and senior students can earn up to \$2,750 a year through simultaneous participation in Army ROTC and the Vermont National Guard. For more information on other Vermont National Guard benefits, contact the Army ROTC Dept. at (802) 656-5757.

### Subsistence Allowance

All contracted scholarship and non-scholarship cadets receive a living stipend for 10 months of the school year: 1st year = \$200 a month; Sophomore = \$250 a month; Junior = \$300; Senior = \$350. Students receive travel allowances to and from all required military schooling away from the University. Those who attend advanced summer camp will receive approximately \$750.

The offices of the [Department of Military Studies](#)  are located at 128 University Heights, (802) 656-2966. E-mail: [uvmrotc@zoo.uvm.edu](mailto:uvmrotc@zoo.uvm.edu).

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## Policies and General Information

### Name and Address Exclusion

The Family Educational Rights and Privacy Act of 1974 grants to all students the right not to have personal information contained in the records of the University released to any individual, agency, or organization. UVM feels that the following constitutes such personal information.

- Name
- Address (including e-mail address)
- Telephone number
- Dates of attendance
- Class
- Previous institution(s) attended
- Major field of study
- Enrollment status
- Awards
- Honors (including Dean's list)
- Degree(s) conferred (including dates)
- Past and present participation in officially recognized sports and activities
- Physical factors (height, weight of athletes)
- Date and place of birth

Students who do not wish to have the above information released should fill out an information exclusion card at the Registrar's Office.

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## Policies and General Information

### Nondegree Students

This category applies to students who have presented minimum credentials and have been permitted to undertake limited course work up to six credit hours, or two courses, per semester for a purpose other than the earning of a degree. Approval from Continuing Education is necessary for a student to exceed the six-credit maximum. Credits earned by nondegree students who later apply and gain admission to a degree program will be evaluated and, if appropriate, will be accepted toward completion of their degree.

Nondegree students may enroll for a maximum of six credits or two courses per semester in the day program.

Selection of courses for those having long-range plans of earning a degree in the daytime program should be made on the basis of information given in this catalogue. Students interested in making a formal application for admission to the University should contact the Admissions Office.

Students presently enrolled and in good standing at another institution may take courses at UVM to transfer to their institutions. These visiting students are considered nondegree students and should contact Continuing Education for information and registration material.

Before completing 30 credits of course work through the evening program or summer session, degree-bound students should consult with an advisor at Continuing Education, submit an application for formal admission to UVM, and then should consult with the appropriate dean's office to structure further courses into a degree program.

All nondegree students who would like assistance in planning educational programs and selecting courses should contact Continuing Education, (802) 656-2085.

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## Policies and General Information

### Nontraditional Undergraduate Student Admissions

The Admissions Office recognizes that candidates who have been out of formal schooling for a period of five years or more have life experiences that are different from traditional-age students.

While nontraditional candidates are expected to present strong academic credentials for admission, they can write to the Admissions Office to request a waiver of the standardized test score requirement, may adjust application essays to reflect their experiences, and may substitute a letter of recommendation from an employer or friend in lieu of the guidance counselor recommendation.

As with every applicant for admission, however, nontraditional candidates are required to present official documents of all academic work, including high school transcript and/or General Education Development certificate ([GED](#)) and transcripts of all college-level work attempted. The Admissions Office looks for previous academic performance that would predict success at the University.

Nontraditional applicants who are missing one or two requirements are reviewed on a case-by-case basis; if a record is otherwise acceptable, the Admissions Office may offer admission with a clause requiring completion of missing requirements prior to enrollment or concurrent with the UVM degree program. UVM does not grant college credit through portfolio assessment. Nontraditional candidates may explore credit options through the College Level Examination Program ([CLEP](#)) or through UVM's Credit by Examination.

Nontraditional learners considering a degree program at UVM may make an appointment with an admissions counselor to discuss the chances for admission. The Admissions Office is able to advise more accurately if individuals bring all academic records with them to the appointment. These documents are used for advising only and do not need to be official.

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### Optional and Unique Fees for Undergraduate Students

#### Optional Fees

##### Locker-Towel Fee

All students enrolled in physical education activity courses and others who wish to have an assigned locker must pay a locker-towel fee each year or any portion thereof. This fee provides a locker and a clean towel after each use of the gymnasium facility.

#### Unique Fees

##### The School of Business Administration

All new first-year and transfer students entering programs in the college are required to purchase a microcomputer. Details on the cost and the machine specifications are provided to the student at the time of admission. Students eligible for financial aid can have the cost of the microcomputer acquisition and maintenance built into their financial aid package.

##### Credit by Examination

A fee of \$50 per credit hour will be charged for administration of special tests in areas for which academic credit may be received. This fee must be paid in advance.

##### Fees for Courses in Music Performance Study

Private applied lessons in most instruments and voice are available each semester, for academic credit, to qualified students. Private lessons meet for 14 weeks during the semester. Both one-half hour (one academic credit) or one hour (two academic credits)

lessons may be taken, depending on the recommendation of the faculty.

The Private Lesson Fee for applied performance study is \$270 per academic credit for non-music majors, and \$95 per academic credit for music majors taking required lessons. This fee, additional to normal tuition charges, will be charged each student as part of normal billing.

Any student enrolled in excess of 18 credit hours because of Private Applied Lessons will be charged only the additional Private Lesson Fee, and not the supplemental tuition charges for taking more than the permitted 18 credits. Permission from the respective Dean's Office to exceed 18 academic credits in a semester must still be obtained, however.

### **The Rubenstein School of Environment and Natural Resources Summer Field Courses**

Students majoring in Forestry or Wildlife Biology are required to take summer field courses. Forestry majors must take [FOR 122](#) and Wildlife Biology majors must take [WFB 131](#) and [WFB 150](#).

The tuition for The Rubenstein School of Environment and Natural Resources Summer Field Courses will be at the Summer Session credit hour rate. In addition, there may be charges for field expenses.

### **Department of Nursing**

An additional fee of approximately \$28 annually will be charged each student for membership in the National Student Nurses Association and will be part of normal billing.

### **Additional Fees for Special Courses**

Occasionally, a special fee will be charged in addition to the fee for tuition to cover long distance travel expenses, special equipment, arrangements, or skilled consultants. Students will be notified of this fee through the registration process.

### **Study Abroad**

A \$400 administrative fee will be assessed for those students participating in Study Abroad programs/activities with the exception of the Buckham Overseas Studies Program.

### **International Students**

A \$100 administrative fee will be assessed for all new graduate and undergraduate students, with the exception of those undergraduate students who visit UVM under the terms and conditions of a bona fide UVM undergraduate reciprocal exchange program.

### **Diagnostic Evaluation**



In certain instances, students may be assessed a fee for diagnostic testing. Additional information can be obtained from the Office of Specialized Student Services.

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### Payment Obligations

The online registration system will generate charges based on enrolled credit hours. All tuition, fees, and room and board charges are payable in full upon notification. Degree students who enroll in advance for courses will receive itemized statements of applicable semester charges at their permanent address about a month prior to the commencement of classes, with instructions to settle in full by a specific date (generally three weeks before classes begin). Advance payments are accepted; checks should be made payable to The University of Vermont. Any checks or payments received by the University may be applied to outstanding balances.

Students who cannot meet their financial obligations because of unusual circumstances should contact the Office of Student Financial Services as soon as possible before the payment due date. Students who are allowed a Monthly Payment Plan or a postponement of all or a portion of their financial obligations will be charged a \$75 Monthly Payment Plan service charge per semester or \$130 for a year plan.

Students who have not satisfactorily completed financial arrangements by the announced due date may have their enrollment cancelled. Disenrollment will automatically place a registration hold on a student's account that will prevent re-enrolling until the student has contacted Student Accounting to discuss the account. A \$50 fee must be paid to allow reregistration.

The University reserves the right to withhold registration material, the diploma, degree, and all information regarding the record, including transcript, of any student who is in arrears in the payment of tuition, fees, or other charges, including, but not limited to, student loans, dining and housing charges, telephone toll charges, and parking fines.

If a student leaves the University for any reason with an outstanding balance and this balance is not settled in a timely manner, the University may turn the account over for

collection. If this is done, any additional collection fees, legal fees, and other costs and charges necessary for the collection of this debt will be added to the outstanding balance.

### **Late Payment Service Charge**

Students who do not settle their accounts by the due date will be charged a late payment service charge. Please refer to the Payment Information and Financial Policies information on the [Student Finances Web site](#) .

### **Budgeted Payment**

The University offers a Monthly Payment Plan to parents who desire to budget annual costs in monthly installments. Specific information is mailed to parents of incoming and returning students in the spring by the Office of Student Financial Services.

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## Policies and General Information

### Preprofessional Options for Undergraduate Students

#### Pre-Medical and Pre-Dental Options

Pre-Medical and Pre-Dental options are available to all students, regardless of major. Advising is coordinated through UVM Career Services, and students are strongly encouraged to consult the Pre-Medical/Pre-Dental advisor early on and throughout their college career. See [the Career Services Web site](#) .

The Pre-Medical Enhancement Program (PEP) is a joint offering of the College of Arts and Sciences, the College of Agriculture and Life Sciences, and the College of Medicine to provide enhanced opportunities for a select group of highly qualified pre-medical students. Interested students apply to PEP in the second semester of their first year. Those students accepted in the PEP program will be assigned a practicing physician-mentor who will introduce the concepts of patient care and practice management through regularly scheduled office-based/clinical experiences. The PEP Coordinator in the College of Medicine will provide information on opportunities for medical research experience and volunteer/employment possibilities in the health sciences or health policy fields. On a monthly basis, students will receive listings about special educational offerings at the College of Medicine and the Academic Medical Center. PEP students will also be able to participate in practice interviews with members of the University of Vermont Pre-Medical Committee. In their junior year, PEP students will be able to apply to the University of Vermont College of Medicine. More information is available on [Pep at the Career Service Web Site](#) .

#### Pre-Law Option

Pre-Law advising is available at both UVM Career Services and through several department faculty and staff in the College of Arts and Sciences. See [the Prelaw section of the Career Services Web site](#) .

## Pre-Veterinary Option

The pre-veterinary studies option, within the Animal Science major, is offered through the College of Agriculture and Life Sciences.

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### Reapplying to the University as an Undergraduate

Applicants denied admission for a given semester may reapply for the following semester. Anyone reapplying must re-submit an application form, update any academic information, and send the appropriate application fee. Essays may be adjusted to reflect applicant's recent activities. These individuals should contact the Admissions Office to discuss academic work that would improve their chances for admission.

Under certain conditions, candidates offered admission who choose not to attend in a given semester can defer entry for up to two semesters with permission from the Admissions Office. After that period or if the admitted candidate failed to request deferred admission, another application and fee must be filed for review by the Admissions Office.

Former degree students at the University of Vermont who withdrew for any reason must see the dean of his/her former UVM college or school to request re-entry. The Admissions Office does not readmit former degree students.

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## Policies and General Information

### Refund and Bill Adjustment Policies

#### Acceptance fee and Advance Tuition Payment for New Students

A newly admitted undergraduate student for fall semester who decides not to attend the University may request a full refund of the acceptance fee by submitting a written request to the Admissions Office postmarked on or before May 1. After May 1, the acceptance fee is non-refundable.

Transfer students and students admitted for spring semester whose plans to enroll change before the payment deadline noted on the enrollment card, may request a full refund of the acceptance fee. Requests should be made in writing to the Admissions Office.

#### Cancellation, Withdrawal, Medical Withdrawal, Suspension, Dismissal

A student who cancels, withdraws for personal or medical reasons, is suspended, or is dismissed will receive an adjustment of charges in accordance with the following schedule. Medical withdrawals require approval of the University Student Health Center.

- 100% tuition and fees credit adjustment prior to the end of the first two weeks of classes.
- 50% tuition and fees credit adjustment through the third week of the semester.
- 25% tuition and fees credit adjustment through the fourth week of the semester.
- No adjustment after the fourth week of the semester.

Due to federal requirements, financial aid recipients who withdraw during the semester will receive their refund based on current federal guidelines.

Note: The effective date of any cancellation or withdrawal is the date the student initiates the withdrawal process either in writing, in person or over the phone. In no case will an

adjustment be made after the first day of classes of the following semester.

### **Changes in Credit Hour Load**

A student who adds courses during the semester will be billed additional tuition and fees applicable to the adjusted credit hour load. A student who drops courses during the semester will receive a tuition credit based upon the effective date as described above. However, the course will remain on the student's record.

### **Refund of Other Charges**

Room and meal plan payments will be refunded on a prorated basis.

### **Death**

In the case of a student's death, tuition, room, and fees will be fully refunded for the semester during which the death occurs. Unused meal points will be refunded.



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### Registration

Degree students must register for the next semester at the designated time, unless excused in advance by their dean. Registration instructions are on the Web. Written approval of the student's dean is required to register for more than 18 credit hours.

Students with disabilities, who are in receipt of appropriate medical certification from the Director of the Student Health Center, will be approved to enroll for a course load of less than 12 credit hours (FTE). Such students will be afforded full-time status in accordance with Section 504 of the Rehabilitation Act of 1973.

Any credits earned at the University of Vermont are transferable to another institution at the discretion of the receiving school.

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### Repeated Courses

Students who repeat a course only receive credit once for the course. The grades for all occurrences of the course remain on the permanent academic record and all are included in computing the cumulative grade-point average.

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### Research Opportunities for Undergraduate Students

Undergraduate students assist faculty in research in a broad range of fields. Several programs provide research grants for undergraduate students. Notable examples include the [HELIX \(Hughes Endeavor for Life Science Excellence\)](#)  and SUGR/FAME (Stimulate Undergraduate Research Experience with Faculty Mentoring) programs. Students are encouraged to consult their dean's office or faculty advisor(s) regarding these and other research opportunities.

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### Residency Regulations, In-State Status Regulation

The Vermont Legislature has established a lower rate of tuition for students who are Vermont residents. These regulations define eligibility requirements for in-state status classification. All students at The University of Vermont and State Agricultural College (UVM) shall be assigned in-state or out-of-state status classification consistent with these regulations. A Vermont domicile must be established for a student to be eligible for in-state status.

#### In-State Status Classification Rules

1. Domicile shall mean a person's true, fixed, and permanent home. It is the place at which one intends to remain indefinitely and to which one intends to return when absent.
2. As one element of domicile, a student must reside in Vermont continuously for one year prior to the semester for which in-state status is sought.
3. A residence established for the purpose of attending UVM shall not by itself constitute domicile.
4. An applicant becoming a student within one year of first moving to the state shall have created a rebuttable presumption that residency in Vermont is for the purpose of attending UVM and/or acquiring in-state status for tuition purposes.
5. A domicile or residency classification assigned by a public or private authority neither qualifies nor disqualifies a student for UVM in-state status. Such classification may be taken into consideration, however, in determining the student's status at UVM.
6. It shall be presumed that a student who has not reached the age of majority (18) holds the domicile of his/her parents or legal guardian(s).
7. Receipt of financial support by a student from his/her family shall create a rebuttable presumption that the student domicile is with his/her family, regardless

- of whether the student has reached the age of 18.
8. A student who has not reached the age of 18 whose parents are legally separated or divorced shall be rebuttably presumed to hold the domicile of the parent with legal custody.
  9. A student of parents legally separated or divorced may be granted in-state status if a noncustodial or joint custodial parent is domiciled in Vermont and has contributed more than 50 percent of financial support for at least one year prior to the semester for which in-state status is sought.
  10. The burden of proof as to eligibility for in-state status rests with the student. Eligibility must be established by clear and convincing evidence.

### **In-State Status Classification Documentation**

The student must submit with the application form all relevant information.

The classification decision shall be based upon information furnished by the student, information requested of the student, and other relevant information available consistent with University policies and procedures and legal guidelines.

Testimony, written documents, affidavits, verifications, and/or other evidence may be requested.

The student's failure to produce information requested may adversely affect the decision for in-state status.

A student or others furnishing information may request the deletion from documents of irrelevant private data.

### **In-State Status Classification Appeals**

The decision of the Residency Officer must be appealed in writing to the Residency Appellate Officer within thirty (30) calendar days of the date of the Residency Officer's written decision. Appeal to the Residency Appellate Officer is the final appeal at UVM.

### **In-State Status Reclassification**

A student who does not qualify for in-state status classification may reapply for such classification each subsequent semester.

In-state status classification becomes effective the first semester following the date of successful application.

### **Re-Examination of Classification Status**

Classification status may be re-examined upon the initiative of the Residency Officer in the exercise of sound discretion. Circumstances such as periodic enrollment may be cause for reexamination.

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### Residential Life

The mission of the Department of Residential Life is to create an atmosphere within the University of Vermont residential system that facilitates the growth and development of all students. This includes providing a safe and secure environment that fosters healthy, inclusive community building among all residents supporting and emphasizing academic success. We are committed to, and intentional about, providing students a range of experiences within their living environment. Desired outcomes of these experiences include:

- The development of a sense of belonging
- The acquisition of knowledge and skills
- The development of critical thinking skills
- The ability to make ethical choices
- The acceptance of self-responsibility

Community councils complement the department's mission, represent student opinions, and provide educational and social programs for their constituents.

### Student Rooms

The campus is divided into seven complexes. Each student room is equipped for comfortable residence hall living. Double rooms have two beds, two desks and chairs, bureau space for each student, two closets, and blinds or shades on the windows. Bookshelves are provided in some rooms. Students provide their own bedlinen, towels, pillows, wastebaskets, and lamps. Laundry facilities are provided in the complexes.

### Residential Technology

All residence hall rooms are wired for access to the Internet and UVM's campus cable



television system. For more information please visit the [Residential Life Web site](#) or call (802) 656-3808.

## Housing

All students are encouraged to reside in one of a variety of housing options, ranging from theme-based suites in our Living/Learning Center to substance-free living in Redstone Hall.

## Undergraduate Housing

All first time, first-year students are required to live on-campus for four matriculated semesters. Over 200 staff members in Residential Life are committed to making on-campus living experiences as productive and rewarding as possible.

Exceptions to living on-campus will be heard prior to June 1 for First-year or Second-year students:

- Residing at home with parents or legal guardians
- Who claim independent financial status in accordance with the guidelines provided by the UVM Financial Aid Office
- Married or united by civil union
- Who have dependent children.

Housing for return students is determined by a lottery held each spring. Second-year students who are members of a sorority or fraternity and want to live in their sorority or fraternity house must submit their request through their President and Chapter Advisor to Department of Student Life by mid-March.

Students living in the residence halls must have room and meal plan contracts. Contracts are binding for the full academic year unless canceled for due cause with the approval of the Department of Residential Life. In August, new students will receive notification of their housing assignments. Rooms may not be occupied until the date specified. Students are expected to leave the residence halls not later than 24 hours after their last examination or by 8:00 p.m. on the last day of final examinations.

The Department of Residential Life is located in Robinson Hall on Redstone Campus. Please call (802) 656-3434 with questions.

## Upper Division and Graduate Housing

Housing at Trinity Campus right next to the UVM campus is a housing option for graduate, non-traditional and some transfer students and is designed to respond to the various and special needs of this student population. There are 100 single rooms; each furnished with a bed, dresser, desk and closet. The contract is for a nine-month period, with separate options for the summer. Please contact the Ethan Allen Housing Office for further information, (802) 654-1735 or email [nwright@uvm.edu](mailto:nwright@uvm.edu).

## Student Family Housing

There are 115 University-owned apartments designated for student families located just outside Winooski at Fort Ethan Allen. About five miles from campus on Route 15, the apartments are close to shopping centers, hospital, and educational institutions. These apartments have several amenities. Detailed rental information may be obtained from the Ethan Allen Housing Office, 14 Ethan Allen Avenue, Fort Ethan Allen, Colchester, Vermont 05446, (802) 654-1735.

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### Resources for Research and Scholarship, and Cultural Activities

Located in the Bailey/Howe Library, the main unit of the University libraries, are the services and print and electronic collections relating to the humanities, social sciences, and many of the sciences. This library holds the largest book and map collection in Vermont, and maintains a representative collection of major periodicals, scholarly journals, indexes, and abstracting services. It is a depository for United States and Canadian government publications and for U.S. patents and trademarks. The Special Collections Department includes the Wilbur Collection of Vermontiana, rare books, literary and historical manuscripts, and the papers of many individuals associated with the state and the federal government. A separate Chemistry and Physics Library is located in the Cook Physical Sciences Building. Collections in medicine and the health sciences are located in the Dana Medical Library. Materials in the Libraries' collections are accessible through the online catalog, Voyager. A wide choice of electronic resources are made available through the Libraries' information gateway, Sage. Sage provides access, in a fully integrated way, to Voyager, full text magazines and newspapers, a wide variety of indexes, a number of specialized reference works, and the World Wide Web. Sage is reached from workstations in the libraries, from residence rooms, and from locations off campus. Audiovisual materials are located in the Media Resources Department of the Bailey/Howe Library and in the Dana Medical Library. The Library Research Annex (located directly east of the corner of East Avenue and Carrigan Drive) contains many older and less used monographs, serials, periodicals, and government documents from the Libraries. It also houses the UVM archives; many large, modern manuscript collections; and other older and rare printed materials from the Special Collections Department. It has public hours and a delivery service.

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## Policies and General Information

### Rights and Responsibilities of Undergraduate Students

#### Classroom Code of Conduct

Faculty and students will at all times conduct themselves in a manner that serves to maintain, promote, and enhance the high quality academic environment befitting the University of Vermont. To this end, it is expected that all members of the learning community will adhere to the following guidelines:

1. Faculty and students will attend all regularly scheduled classes, except for those occasions warranting an excused absence under the University Attendance Policy (e.g., religious, athletic, and medical).
2. Students and faculty will arrive prepared for class and on time, and they will remain in class until the class is dismissed.
3. Faculty and students will treat all members of the learning community with respect. Toward this end, they will promote academic discourse and the free exchange of ideas by listening with civil attention to comments made by all individuals.
4. Students and faculty will maintain an appropriate academic climate by refraining from all actions that disrupt the learning environment (e.g., making noise, ostentatiously not paying attention, and leaving and reentering the classroom inappropriately).

#### Attendance Policy

Students are expected to attend all regularly scheduled classes. The instructor has the final authority to excuse absences. It is the responsibility of the instructor to inform students of his or her policy for handling absences and tardiness, and the penalties that may be imposed. Notification should be done both verbally and in writing at the beginning of each semester.

It is the responsibility of the student to inform the instructor regarding the reason for absence or tardiness from class, and to discuss these with the instructor in advance whenever possible. The instructor has the right to require documentation\* in support of the student's request for an excuse from class. If an out-of-class exam is scheduled which conflicts with a regularly scheduled class, the regularly scheduled class has priority.

The instructor has the right to disenroll any student from a course if that student (1) does not meet the prerequisites of the course, or (2) fails to attend a scheduled course by the third instructional day of a semester or the second scheduled class session of a course, whichever comes later, unless the student has notified the instructor and has been excused. To disenroll students the instructor must notify the Registrar, who will remove the student's name from the class list and the course from the student's schedule. The student is responsible to determine whether or not she or he is enrolled in a class.

\* When a student is unable to attend class for a health reason, the student may give permission for the instructor to discuss the situation with a representative from the Center for Health and Wellbeing. As with all absences, the faculty member has final authority to excuse students from classes.

### **Athletic-Academic Conflicts**

*Athletic-Academic Conflicts* Students participating in inter-collegiate athletics should plan their schedules with special care, recognizing the primary importance of all of their University academic responsibilities. Each semester, members of UVM varsity and junior varsity teams are responsible for documenting in writing any conflicts between their planned athletic schedule and the class schedule to their instructors by the end of the second full week of classes. Students and instructors should then discuss potential conflicts between course requirements and intercollegiate competitions. When an unavoidable conflict exists, the student and instructor should seek a resolution which permits the student to address the course requirement and participate in the athletic competition. The instructor has final authority on this matter.

*Religious Holidays* Students have the right to practice the religion of their choice. Each semester students should submit in writing to their instructors by the end of the second full week of classes their documented religious holiday schedule for the semester. Faculty must permit students who miss work for the purpose of religious observance to make up this work.

### **Freedom of Expression and Dissent**

The University of Vermont is a place to learn and to teach. It is not a cloister - it does not live in a vacuum. It is both in the world and of the world. Its mission is to educate people for leadership in society. (Board of Trustees, May 1969)

Fundamental to our entire philosophy is our firm belief that rights guaranteed by the First and Fourteenth Amendments to the Constitution of the United States must be protected on the campus as elsewhere and that local, state, and federal laws must prevail on

campus. Becoming a member of the University community in no way abrogates or compromises the rights, which the Constitution of the United States guarantees to all persons.

Within the University setting as within society at large, the exercise of one's rights must be tempered by recognition of the rights of others. For example, the exercise of free speech may unreasonably infringe upon the right to learn. The laws of society and the mission of the University establish the framework within which disagreement, dissent, demonstration, and advocacy may, indeed must, occur. For humankind to progress, the educational process must be dynamic even if fraught with controversy, for change cannot take place until the first question is raised. The discovery of new propositions or new solutions also may be followed by passionate advocacy. Such advocacy must never replace the continued pursuit of the University's essential purpose of learning and teaching.

It is within this context that the University rejects the use of, or the threat of force as a means of resolving differences. Violence is both unnecessary and inappropriate for those who have access to reasoned discourse and is unacceptable within an institution dedicated to reason. The University officer responsible for implementing the Policy Statement on Freedom of Expression and Dissent, when students are involved, is the Vice President for Student Affairs. In all cases, the designated officer shall attempt to resolve the situation through efforts of persuasion. The University must, if efforts at persuasion have failed, resort to the use of any legal remedy deemed necessary. Those engaged in unlawful disruption, consequently, may expect appropriate responses from either University or other law enforcement authorities or both.

A full statement of the policy is in [The Cat's Tale](#) . Each student is responsible for knowing and observing this policy.

### **Academic Discipline**

The University expects each student to maintain high standards of personal conduct and social responsibility at all times both on and off campus. As responsible citizens, all students are required to observe and to share in the support of University regulations. Any student who fails to uphold these standards is subject to disciplinary action.

The disciplinary authority of the University is vested in the President. In such cases as the President considers proper, this authority may be delegated to the several deans and to appropriate judicial bodies. The continuance of each student, the receipt of academic credits, graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University. The University is free to cancel a student's registration at any time on any grounds if it considers such action to be for the welfare of the institution.

Policy on the above matters is explained in detail in [The Cat's Tale](#) . Each student is held responsible for knowledge and observance of these rules and regulations, including those concerned with academic honesty.

## Academic Honesty

The principal objective of the policy on academic honesty is to promote an intellectual climate and support the academic integrity of the University of Vermont. Academic dishonesty or an offense against academic honesty includes acts that may subvert or compromise the integrity of the educational process. Such acts are serious offenses that insult the integrity of the entire academic community.

Offenses against academic honesty are any acts that would have the effect of unfairly promoting or enhancing one's academic standing within the entire community of learners which includes, but is not limited to, the faculty and students of the University of Vermont. Academic dishonesty includes knowingly permitting or assisting any person in the committing an act of academic dishonesty.

The policy distinguishes between minor and major offenses. Offenses purely technical in nature or in which the instructor does not perceive intent to achieve advantage are deemed minor and are handled by the instructor. Major offenses are those in which intent to achieve academic advantages is perceived. A full statement of the policy can be found in [The Cat's Tale](#) . Each student is responsible for knowing and observing this policy.

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### Scholarships for Undergraduate Students

Thanks to the generosity of UVM alumni, parents, and friends, a number of scholarships are available to students whose experiences and backgrounds promise to enrich the larger university community. While many of these scholarships are based on a combination of need and merit, several scholarships are offered exclusively on the basis of academic achievements and potential for success at UVM. For more information, visit the [scholarship Web site](#) . Examples of scholarships available to new students include:

#### The Vermont Scholars Program

Each year, UVM names a select group of outstanding Vermont high school students as Vermont Scholars, an academic honor that carries a four-year scholarship. To qualify, candidates generally rank in the top ten percent of their graduating class and present superior scores on the Scholastic Assessment Test (SAT I). Comparable ACT scores are acceptable.

A committee comprising members of the University community reviews all qualified applicants and bases final selection on such factors as secondary school record, recommendations, admissions essays, extracurricular participation, and academic potential. Scholarship recipients are notified by mid-March.

Vermont Scholars receive between \$1,500 and \$8,000 annually in scholarship and grant assistance, depending on need. The scholarship is renewable up to four years (eight semesters) provided a 3.00 cumulative grade-point average is maintained.

#### The Green and Gold Scholars Program

The University of Vermont recognizes the academically strongest student at each accredited high school in Vermont with 4-year, full tuition scholarships, currently valued

at over \$33,000. At the end of the academic year, the Principal of each school submits a nominee who is the strongest student at the end of the 11th grade year. The primary criteria for determining a nominee is limited to academic performance in high school, including rank in class, grade point average, rigor of course work and standardized testing. Green & Gold nominees are awarded four-year full tuition scholarships upon admission to the University. The scholarships are renewable annually providing that the recipient maintains a 3.00 overall grade point average and makes satisfactory progress toward degree completion while in attendance at the University.

### **UVM Community Service Award**

The UVM Community Service Award is available for Vermont residents who have a demonstrated commitment to community and public service. The University Scholarship Committee selects those students that have a proven track record of community service. Community Service Scholars receive between \$1,000 and \$8,000 annually in scholarship and grant assistance, depending on need. Recipients must maintain at least a 2.50 cumulative grade-point average and continue to perform community service while at the University.

### **Presidential Scholarship**

Out-of-state students with a superior record of scholastic achievement are eligible for consideration for the UVM Presidential Scholarship. Letters of recommendation, secondary school record, and extracurricular participation are among the criteria used in making scholarship selections. Presidential Scholars receive a merit scholarship for four years (eight semesters) providing they maintain a cumulative 3.00 grade-point average and continue to make satisfactory progress toward the completion of their degree requirements. Scholarship values range from \$2,000-\$3,500 per year.

### **Patrick Scholarship**

The Patrick Scholarship is awarded to academically deserving Vermonters in the amount of \$1,000 per year for four years.

### **How to Apply for UVM Scholarships**

There is no separate application process for most UVM- based scholarships. An applicant will be considered for all UVM scholarships simply by submitting the UVM admissions application. The wealth of information provided in the Admissions application is used in matching students with available scholarships. Additionally, students must file the Free Application for Federal Student Aid (FAFSA) in order to be considered for need-based scholarships. Students will be notified if additional information is needed to apply for a specific scholarship.

### **Other Scholarship Resources**

- [The Scholarship Office](#) , located at 178 South Prospect Street, dedicates a



scholarship resource workspace that can be utilized by any entering or returning UVM student. Resources such as scholarship and grant search books, and records on a small number of scholarship opportunities forwarded to UVM from outside sources are available for interested students.

- [VSAC \(The Vermont Student Assistance Corporation\)](#)  offers a guide to scholarships for Vermont students available in UVM's Financial Aid Office or contact VSAC toll-free at 1-800-642-3177.
- [The Army ROTC Program](#)  offers an opportunity for students to earn a degree of their choice and possibly qualify for an officer's commission. Two-, three- and four-year scholarships are available worth up to \$16,450 for tuition and books as well as \$206/month for up to ten months.
- Veterans are encouraged to consult the UVM Registrar's Office regarding G.I. Bill benefits in education.
- Many organizations within home communities offer a wide range of scholarships to needy and deserving students. Check with schools and communities for these opportunities.



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## Policies and General Information

### Student Exchange: New England State Universities

The six New England land-grant universities (Universities of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut) participate in an exchange program to enable students at the subdegree level to take advantage of a course or combination of courses not available at the home institution. In order to participate in the program, state university students must:

1. Identify a course or combination of courses related to their area of academic interest and not available on the home campus.
2. Receive permission from the appropriate university exchange authorities at both the sending and receiving institutions.
3. Meet minimum eligibility requirements which include the following: In general, students must be in good standing and have at least a 2.50 grade-point average; must be degree candidates; and must be at least first semester sophomores (application may be made as early as the second semester of the first year). There is no upper limit in terms of class standing on participation.

Exchanges may not exceed a total period of two academic semesters, but these need not be taken consecutively. Summer sessions are not considered part of the exchange program. Course work approved by the student's host institution and completed satisfactorily is fully transferable to the home institution. Transferability of grades and inclusion in grade-point averages are subject to home institutional policy.

The student will pay normal tuition and required fees to the home institution and room and board (where applicable) to the host institution. Students on financial aid must contact their home institution's financial aid office to determine eligibility for continued scholarship assistance.

Participation in the exchange program will not affect a student's residence status either at

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the home or host institution, nor does participation improve or prejudice possibilities for transfer.

For information, contact the Office of the Provost, 349 Waterman Building, University of Vermont.

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## Policies and General Information

### Study Abroad

The Office of International Education (OIE), located in Room B161 of the Living/Learning Center, is an advising and resource center for undergraduate students interested in a year, semester, or summer study abroad experience. Study Abroad Advisors maintain extensive information about study abroad programs, institutions, and volunteer opportunities. They, in conjunction with UVM Transfer Affairs, help students identify programs appropriate to their needs and arrange credit approval from UVM. All students intending to study abroad and receive transfer credit from UVM are required to visit the OIE and to complete the Study Abroad Approval Form prior to departure. Contact the OIE for deadlines. Official approval is required for students to guarantee that their programs of study are eligible for transfer credit and that any financial aid will apply. There is a \$400 study abroad fee for semester and year-long programs and \$200 fee for summer programs.

To be approved to study abroad, students must:

1. Have a minimum cumulative GPA of 2.5, or between 2.0 and 2.5 with a minimum semester average of 2.5 for each of the last two semesters prior to studying abroad.
2. Meet the admissions criteria of a University approved study abroad program. University approved programs include those programs on the UVM Approved List.

Students with a GPA above 2.0 who do not qualify under point one above may petition their academic dean for permission to study abroad. Students seeking such permission should request an Academic Eligibility Form from their Study Abroad Advisor in the Office of International Education to be signed by their academic dean.

Students who have been dismissed or are on academic trial are generally not eligible to participate in study abroad programs. Such individuals are encouraged to consult with

their individual deans' offices regarding their interpretation of this policy. Under no circumstances will a student on disciplinary suspension the semester before studying abroad, and/or the semester they are scheduled to study abroad, receive official UVM approval for overseas study.

For more information about study abroad, visit the [Office of International Education Web site](#) .

### **UVM Exchange Programs**

UVM participates in a number of exchange programs with institutions around the world. In an exchange program, all UVM participants pay UVM in-state tuition and fees (and frequently, UVM room, and board) and exchange places with a student from a foreign institution. Exchange programs are a good financial value. These programs provide direct immersion into the academics and culture of the country. Although most exchange programs require a good command of the host language, many offer programs entirely in English.

#### **UVM/University of Western Australia Exchange Program**

This program in Perth, Australia, was developed by UVM's School of Natural Resources (SNR), and SNR students will receive priority placement to pursue their studies in natural resources. Courses are also offered in business, arts and sciences, agriculture, Asian studies, and Aboriginal studies. For more information, contact Marie Veau-Fagnant in RSENR or the OIE.

#### **UVM/University of Belgrano Exchange Program**

This program in Buenos Aires, Argentina can accommodate various levels of non-native Spanish speakers and students can choose courses in Spanish language and literature, culture, history, economics, and politics. For more information, contact Professor Catherine Connor, Department of Romance Languages, or the OIE.

#### **UVM/University of Lapland Exchange Program**

This exchange program in Finland is designed especially for Social Work majors and offers UVM students the opportunity to study social work in English. For more information, contact Professor Stanley Witkin, Social Work Department, or the OIE.

#### **UVM/Sussex Exchange Program**

This exchange is located at the University of Sussex in Brighton, England. Sussex is well recognized for both its humanities and social science offerings as well as its science and engineering programs. Twenty percent of the Sussex student body is international. For more information, contact Professor George Moyser, Department of Political Science, or the OIE.

#### **UVM/Augsburg Exchange Program**

This exchange is with the Universität Augsburg, Bavaria, Germany. The UVM student needs to have a solid command of the German language and be pursuing German or European Studies. For more information, contact Professor Dennis Mahoney, Department of German and Russian, or the OIE.

### **International Student Exchange Program (ISEP)**

This program enables UVM students to study in more than 100 sites in 46 different countries in Europe, Asia, Australia, Canada, Africa, and Latin America. Many sites offer instruction in English, as well as in the language of the host country. For more information, contact the Office of International Educational.

### **Kansai Gaidai Exchange Program**

Students interested in Japanese language and culture may spend a semester or year studying at this university near Osaka, Japan. For more information, contact Mutsumi Corson, Area and International Studies, or the OIE.

### **UVM/Vienna Exchange Program**

Students interested in international business may spend a semester or year studying at the Wirtschaftsuniversität Wien, Vienna, Austria. All courses are taught in English. For more information, contact Professor Peter Battelle, School of Business Administration, or the OIE.

### **UVM/Edith Cowen Exchange Program**

This exchange program located in Perth, Australia was developed by UVM's School of Nursing. This provides opportunity for nursing students to take classes in their major overseas. For more information contact Associate Professor Rycki Maltby, School of Nursing, or the OIE.

### **UVM/Stockholm Exchange Program**

This exchange program with the Stockholm Institute of Education, Stockholm, Sweden, provides opportunities for preK-3 education students to study for the spring semester. For more information, contact Associate Professor Dale Goldhaber, College of Education and Social Services, or the OIE.

### **UVM Faculty-led Programs Abroad**

UVM offers several short-term travel study programs. Most of these UVM faculty-led programs are three-credit courses offered during the summer or January break. Previous program locations have included Mexico, England, Anguilla, Finland, Ireland, Belize, Honduras, Costa Rica, and Cuba. These programs are open to degree students and individuals who have already obtained college degrees. For a complete listing and fee information, visit the [Continuing Education Web site](#) or the [Office of International](#)

[Education Web site](#)

## **Sponsored Programs**

The Buckham Overseas Studies Program in England is a scholarship program at the University of Kent, Canterbury, administered by the College of Arts and Sciences and funded through a generous endowment from the Buckham family. The program runs for the full academic year and is designed to provide an opportunity for up to 20 exceptional English majors to spend their junior year at a modern university in an ancient British city. Living and studying in a fully integrated way with English students, the UVM students earn up to 32 credits. Cost of participation, including tuition, transportation, room and partial board, does not normally exceed the costs incurred during a year on the UVM campus.

To apply to the program, a student must be an English major with a cumulative and an English GPA of 3.0 and have earned at least 60 credit hours (including English 85 and 86) by the time the scholarship begins. For further information, contact Professor Helen Scott, Department of English, 417 Old Mill; (802) 656-4172.

## **UVM-Affiliated Study Abroad Programs**

### **Spring Semester Program in Grenoble, France, in International Business**

This program provides an opportunity for students interested in international business, economics, and trade to participate in an English-speaking program while gaining exposure to France's history, language, and culture. For more information, contact Professor Peter Battelle, School of Business Administration, 209 Kalkin Hall, UVM, or the OIE.

### **Junior-Year-in-Salzburg Program**

This academic-year program at the University of Salzburg, Austria, is open to qualified UVM undergraduates in all major fields. Basic requirements are: completion of sophomore year; a minimum of two years of college-level German with a B average; and good academic standing (a cumulative average of 2.5). For information, contact Professor Helga Schreckenberger, Department of German and Russian, UVM.

### **The Swedish Program**

Sponsored by the University of Stockholm and a consortium of participating American colleges and universities (of which UVM is a member), this non-profit program focuses upon organizations and public policy in every social science discipline. Its curriculum is thematically specific, interdisciplinary, and relevant to the host country (Sweden). For more information, contact Professor Anthony Magistrale, English Department, 400 Old Mill, or the OIE.

### **UVM/Irkutsk State University Exchange**

This exchange program in Russia will allow students of the Russian language to test the skills they have learned in the classroom in a real world setting. It will help students hone their mastery of Russian and will provide them with many opportunities to learn the subtle nuances of the language. For more information contact Dr. Kevin McKenna, Department of German & Russian, or the OIE.

### **UVM/Yaroslavl State University Exchange**

This exchange program in Russia offers students the opportunity to study business in Russian in an international environment. The program will provide a unique setting for students to re-examine their western notions of business. For more information, contact Dr. Michael Gurdon, School of Business Administration, or the OIE.

### **Other Popular Study Abroad Programs**

The following programs are just a few of those on the UVM Approved List. These programs have been especially popular among faculty, staff, and students. For a complete Approved List, contact the Office of International Education, or refer to the [Office of International Education Web site](#) .

### **American Institute for Foreign Study (AIFS)**

A publicly owned company, AIFS Inc. is a nationwide organization that provides comprehensive overseas study and travel programs in Argentina, Australia, Austria, the Czech Republic, England, France, Holland, Ireland, Italy, Japan, the Netherlands, Russia, South Africa, and Spain.

### **Boston University**

Boston University offers academic-year, semester, and summer study abroad opportunities in 13 countries on six continents. Several of the program sites provide students with an integrated internship component for a portion of their academic experience and credit. Other program sites feature direct enrollment options in local universities for advanced language students.

### **Institute for the International Education of Students**

This nonprofit organization sponsors programs in Argentina, Australia, Austria, China, England, France, Germany, Ireland, Italy, Japan, and Spain. Semester, year, and summer options are available.

### **School for International Training (SIT)**

SIT is an accredited college of World Learning Inc., which was founded in 1932 as The U.S. Experiment in International Living. More than 50 experientially-focused programs are offered in over 40 countries, including the continents of Africa, Asia, and South America. All programs include a Life and Culture Seminar, a Methods and Techniques of Field Study Seminar, an Independent Study Project, a home-stay opportunity, and, if

appropriate, an intensive language study.

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### Transcripts

An official transcript is the reproduction of a complete, unabridged permanent academic record validated with the University seal, facsimile signature of the Registrar, and date of issue. A key to the transcript is printed on the reverse side of each page of the transcript. A rank-in-class entry is made on undergraduate records upon completion of undergraduate degree requirements. Currently enrolled as well as former students may obtain an official transcript of their permanent academic record by writing the Office of the Registrar, 360 Waterman Building. Please allow a minimum of one week for normal processing and three weeks following the end of a semester. Transcripts are not released when there is an indebtedness to the University.

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### Transfer of Credit

Students seeking to transfer academic credit may do so only for courses that are taken at accredited institutions and are comparable in content, nature, and intensity to courses taught at The University of Vermont. Credit is not given for transfer courses with grades lower than C. To insure transferability of courses to be taken elsewhere, degree students must secure prior approval for each course in writing from Transfer Affairs. Questions regarding credit transfer should be directed to the Office of Transfer Affairs, 360 Waterman.

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## Policies and General Information

### Transfer Student Admissions

The University welcomes applicants who have demonstrated success at other institutions of higher education and who have met all University-wide entrance requirements either in high school or in college. For the purpose of admission, a transfer candidate is one who has taken college-level courses for credit after completion of secondary school.

All transfer students are considered for admission on a space-available, competitive basis.

In making transfer admission decisions, the Admissions Office reviews all academic information available: official transcripts of all college-level work and the high school record (or General Education Development Certificate). Submission of standardized test scores such as the SAT I or the ACT is optional for transfer candidates.

Transfer candidates are subject to the minimum entrance requirements outlined for first-year candidates. Any entrance requirement not fulfilled in high school can be met by an equivalent semester-long college course.

For transfer candidates who have earned under 30 college-level credits, the quality of the high school record remains an important evaluation tool. After 30 earned credit hours, the college grade-point average and course selection are the most important factors in a decision. The Admissions Office still needs to see the high school record to determine if all University-wide entrance requirements have been met.

The minimum grade point average requirement for all transfer candidates is a 2.5 (C+) average on a four-point scale. Generally, to be competitive a 3.0 average or above is recommended.

### [Transfer Credit Policy](#)

The Office of Transfer Affairs reviews each college-level course taken by transfer candidates accepted for admission. A written evaluation is sent to each transfer candidate indicating the status of each course. To receive transfer credit, a course must have been taken at an accredited college or university for credit; it must be comparable in content, nature, and intensity to a course offered at UVM; and the grade earned must be comparable to a "C" or higher as indicated on an official transcript. The dean of the college or school determines the applicability of the transfer course(s) to the student's degree requirements at the University.

All transfer credit remains provisional until the transfer student successfully completes one semester of course work as a degree student at UVM. The UVM grade-point average reflects only course work taken here. Grades from other institutions are not calculated into the UVM GPA and will not appear on a UVM transcript.

Credit through the <http://www.collegeboard.com/ap/students/index.html> Advanced Placement Program (AP) of the College Board is granted as a specific university course, or courses, with scores of 4 or 5. Scores of 3 are acceptable for some exams. Official AP score reports must be sent directly to the Office of Transfer Affairs. AP course equivalencies are determined by the faculty of the corresponding subject area and are awarded by the Office of Transfer Affairs. AP credit is assigned a UVM course equivalency and applicability to the degree program is determined by the student's dean's office.

Courses taken on a college or university campus while a student is still in high school may be eligible for transfer credit. Students should contact the Office of Transfer Affairs for assistance in determining transferability of these courses.

College-level courses taken through high school cooperatives, such as Syracuse Project Advance (SUPA), may transfer to UVM if they meet the standards set forth above by the Office of Transfer Affairs. Credit may also be obtained through a nationally-standardized examination to demonstrate college level subject mastery. Advanced Placement Examinations (AP), which can be taken while still in high school, or College Level Examination Placement (CLEP), would serve as recognized standardized examinations. A third option is the UVM Credit by Exam. Contact the Office of Transfer Affairs to see what specific subject areas are covered by these exams.

Further questions regarding transfer credit should be addressed to the Office of Transfer Affairs, 360 Waterman Building, University of Vermont, Burlington, VT 05405.

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## Policies and General Information

### Tuition and Fees for Undergraduate Students

#### Application Fee

A non-refundable application of \$45 is charged each applicant for admission to a University degree program.

#### Acceptance Fee and Advanced Tuition Payment

All new undergraduate applicants who have been accepted by the University are required to pay \$300 in order to reserve a place in the next enrolling class. Regular first-year students accepted for the fall semester must pay the deposit by May 1. Most transfer students admitted for the fall must pay the deposit within two weeks of the offer of admission. Students admitted in January for the spring semester may have less than two weeks in which to pay the deposit. A portion of the fee is for initial advising, selection of courses, and personal orientation to the campus, a requirement for all incoming undergraduate degree students. The remainder will be applied to the initial semester's tuition bill.

If a newly admitted student who has paid the required deposit subsequently chooses not to attend the University, the student will receive a \$100 refund if the University is notified in writing prior to the beginning of the semester for which the student was admitted. If the University is notified after the beginning of the semester, the entire deposit is forfeited.

#### Estimated Yearly Expenses

Listed below are estimated expenses (excluding transportation, laundry, and spending money) based on the regular tuition for undergraduate students followed by explanation of these charges.

#### ESTIMATED YEARLY EXPENSES

	<b>Resident</b>	<b>Nonresident</b>
<b>Tuition</b>	\$9,452	\$23,638
<b>Housing (Double Room)</b>	\$4,936	\$4,936
<b>Meal Plan (Average)</b>	\$2,396	\$2,396
<b>Comprehensive Student Fee</b>	\$1,148	\$1,148
<b>Inter-Residence Association Fee</b>	\$24	\$24
<b>Optional Student Accident and Sickness Insurance (Estimated)</b>	\$1,600	\$1,600
<b>Student Government Association Fee</b>	\$124	\$124
<b>Textbooks and Supplies (Estimated)</b>	\$865	\$865
<b>Total, excluding personal and miscellaneous costs</b>	<b>\$20,669</b>	<b>\$34,855</b>

### Tuition

*Vermont Residents:* \$394 per credit hour through 11.5 hours. From 12-18 credit hours ♦ \$4,726 per semester plus \$394 per credit hour for each hour in excess of 18 hours.

*Nonresidents:* \$985 per credit hour through 11.5 hours. From 12-18 credit hours ♦ \$11,819 per semester plus \$985 per credit hour for each hour in excess of 18 hours.

Note: Courses taken for audit are also included in determining the number of credit hours for which a student is billed.

### Housing Charges

*Room and Board:* All housing agreement include both room and board and are legally binding for the nine-month academic year. Each occupant is liable for the yearly rent, one half to be paid each semester.

The University meal plan offers several options. Payment for the plan selected is made in two equal installments paid at the beginning of a semester. The University's food service system includes not only dining halls but also the various campus snack bars, restaurants, and grocery stores. Questions regarding food services should be directed to the University Dining Services/Marriott, Robinson Hall, Redstone Campus.

Students not required to live on campus who wish to cancel a housing agreement must do so in writing. Students canceling before July 1 will be assessed a \$50 penalty and from July 1, but before September, 2005, a \$150 penalty. Unless specifically authorized by the Office of Residential Life, no room cancellations will be honored after the beginning of the fall semester.

### Comprehensive Student Fee

This fee is used to cover the operating, capital costs, and improvements of the Library, Student Center, Athletic Center, Student Health Center, and Campus Transportation services.

### Inter-Residence Association Fee

A \$24 per year (\$12 per semester) fee is charged to each resident to be used for activities within the residence hall system.

### Student Insurance (Optional)

Students have the option of purchasing a Student Accident and Sickness Insurance Policy through the University. This policy provides coverage for many services not included in the health fee as well as hospitalization benefits. To participate in this program, the student must pay a modest annual premium plus the health fee for the two semesters of the academic year. Students not covered by the health insurance policy of a parent, guardian, or spouse must purchase the Student Accident and Sickness Insurance Policy.

### Student Government Association Fee

Undergraduate degree students enrolled in five or more credit hours are charged a fee of \$124 per year (\$62 per semester). This fee is allocated by the Student Government Association toward the support of student organizations and student activities.

### Fees for Part-time Students

A comprehensive fee is charged to all part-time students enrolled in five but less than 12 credit hours in a semester, as follows:

Credits Enrolled Per Semester	Fee
5	\$234
6	\$262
7	\$294
8	\$328
9 to 11.5	\$358

All undergraduate degree students enrolled in four or more credit hours in a semester pay the full Student Government Association fee.

### Books and Supplies

The estimated yearly cost of books and supplies at \$865 is a low average. Some particular curricula may require one time purchases which will change this amount.

Students in the College of Engineering and Mathematics and School of Business Administration should add about \$100 for computer software to their estimated yearly costs for books and supplies.

Physical Therapy students will be responsible for the cost of medically-required vaccinations, transportation, and living expenses (including room and board) during clinical affiliation periods. All Physical Therapy students are required to carry professional liability insurance prior to enrolling in the clinical experience.

Nuclear Medicine Technology and Radiation Therapy students should add about \$85 for lab coats and other related expenses.

Professional Nursing students should add about \$250 for clinical attire, professional liability insurance, health screening, vaccinations, and other related expenses in the second semester of the sophomore year and about \$300 in the beginning of the junior year.

Students enrolled in art courses should expect to incur a lab or materials cost roughly equivalent to the cost of books in other courses. In certain courses, instructional materials are purchased in bulk by the department and costs are prorated among students at a far lower rate than if they were purchased individually.



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## Policies and General Information

### Veterans Advising and Benefits

The University provides support and advising to any veteran or dependent eligible for benefits under Federal Law, Chapters 30, 31, 32, 34, 35, or 106. Students eligible for these benefits should contact the Registrar's Office at least one month prior to registration each semester. Students wishing to register for benefits should be prepared to present their certificates of eligibility.

It is important that all veterans and dependents keep in contact with the University for the latest information regarding benefits and requirements. Also, those students involved in the Veterans Program should contact the University in the event of any change in credit load, dependency status, address, or major. The phone number is (802) 656-2045.



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## Board of Trustees The University of Vermont

Daniel M. Fogel, B.A., M.F.A., Ph.D., President, *ex officio*

James H. Douglas, Governor, A.B., *ex officio*

### Term Ending March 2006

- Christine E. Hertz, Burlington, Vermont
- Bruce Lisman, B.A., New York, New York
- C. Dean Maglaris, B.S., M.B.A., New Canaan, Connecticut
- James Pizzagalli, B.S., J.D., Shelburne, Vermont
- Helen B. Spaulding, Boston, Massachusetts

### Term Ending March 2007

- Kathleen C. Hoyt, B.A., Norwich, Vermont
- Richard W. Hube, Jr., B.A., South Londonderry, Vermont
- Thomas A. Little, A.B., J.D., Shelburne, Vermont
- Mark S. Young, Orwell, Vermont

### Term Ending March 2008

- Robert F. Cioffi, B.A., M.B.A., Rowayton, Connecticut
- Carl H. Lisman, A.B., J.D., Charlotte, Vermont
- Raymond C. Pecor, Jr., A.B.A., Shelburne, Vermont

### Term Ending March 2009


- Edwin H. Amidon, Jr., B.A., LL.B., Charlotte, Vermont
- Martha P. Heath, B.S., Westford, Vermont
- James P. Leddy, B.A., M.S.W., South Burlington, Vermont

- Robert H. Young, B.A., M.B.A., Rutland, Vermont

### **Term Ending March 2010**

- James M. Betts, B.S., M.D., Oakland, California
- Deborah H. McAneny, B.S., Southborough, Massachusetts
- John R. Snow, B.A., Charlotte, Vermont

### **Term Ending March 2011**

See also, *the Board of Trustees Web site* .

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## Administration The University of Vermont

- Fogel, Daniel Mark, Ph.D., President
- Bramley, A. John, Ph.D., Senior Vice President & Provost
- Bazluke, Francine T., J.D., Vice President for Legal Affairs & General Counsel
- Carr, Frances E., Ph.D., Vice President for Research & Dean of Graduate Studies
- Gower, J. Michael, Vice President for Finance and Administration
- Gustafson, Thomas J., Ed.D., Vice President for Student & Campus Life and Interim Vice President Development & Alumni Relations
- Meyer, Karen N., Vice President for State and Federal Relations
- Parke, E. Lauck, Ph.D., Vice President for Undergraduate Education
- Belliveau, C. and Vallett, C., Co-Directors, Continuing Education
- DeHayes, Donald H., Ph.D., Dean, Rubenstein School of the Environment and Natural Resources
- DeWitt, Rocki-Lee, Ph.D., Dean, School of Business Administration
- Evans, John N., Ph.D., Dean, College of Medicine
- Grasso, Domenico, Ph.D., Dean, College of Engineering and Mathematical Sciences
- Johnson, Rachel N., Ph.D., Dean, College of Agriculture and Life Sciences
- Lantagne, Douglas O., Ph.D., Interim Director, Extension System
- Miller, Eleanor M., Ph.D., Dean, College of Arts and Sciences
- Miller, Fayneese S., Ph.D., Dean, College of Education and Social Services
- Rambur, Betty, DNS, Dean, College of Nursing and Health Sciences
- Saule, Mara R., M.L.S., Dean, Libraries
- Taylor, Robert, Ph.D., Dean, Honors College
- Nestor, David A., Ed.D., Associate Vice President for Campus Life & Student Affairs

*A [current organizational chart](#) is available from the Office of Institutional Studies.*

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## University Professorships

- **The Williams Professorship of Mathematics**, 1853, honors Azarias Williams of Concord, Vermont, merchant and judge, native of Sheffield, England, who in 1839 deeded to the University extensive land holdings.
- **The Marsh Professorship of Intellectual and Moral Philosophy** was established in 1867 to honor James Marsh, distinguished UVM president and philosopher of the 1830's. William E. Mann is the Marsh Professor.
- **The Pomeroy Professorship of Chemistry** was established in 1878 by John N. Pomeroy, A.B., 1809, who lectured on chemistry and served as trustee of the University. William E. Geiger is the Pomeroy Professor.
- **The Howard Professorship of Natural History and Zoology** was established in 1881 by John Purple Howard, a generous benefactor of the University. William Kilpatrick is the Howard Professor.
- **The Flint Professorship of Mathematics, Natural or Technic Science** was established in 1895 by a bequest from Edwin Flint.
- **The Converse Professorship in Commerce and Economics** was established in 1899 by John H. Converse, A.B., 1861, LL.D., 1897, who as a trustee of the University proposed the teaching of Latin, modern languages, history, and other subjects. William Gibson is the Converse Professor.
- **The Thayer Professorship of Anatomy** was established in 1910 to honor Dr. Samuel White Thayer, Dean of the College of Medicine from 1854-71 and 1880-82, from contributions made by alumni of the College of Medicine. Professor of Anatomy Rodney L. Parsons is the Thayer Professor.
- **The McCullough Professorship of Political Science** was established in 1926 through grants made by Gov. and Mrs. John G. McCullough. Alan P. Wertheimer, Professor of Political Science, is the McCullough Professor.
- **The Perkins Professorship of Zoology** was established in 1931 to honor George H. Perkins, a teacher of science and dean of the College of Arts and Sciences. Judith L. Van Houten, Professor of Biology, is the Perkins Professor.
- **The Shipman Professorship of Ophthalmology** was established in 1934 by a

bequest from Dr. Elliot W. Shipman, M.D., 1885 and is held by Robert Millay, M.D..

- **The Lyman-Roberts Professorship of Classical Languages and Literature** was established in 1941 to honor Robert Roberts, mayor of Burlington in the 1890's and a University trustee from 1895-1939. Z. Philip Ambrose, Professor of Classics, is the Lyman-Roberts Professor.
- **The Corse Professorship of English Language and Literature** was established in 1952 by Frederick M. and Fannie C.P. Corse. Anthony G. Bradley, Professor of English, is the Frederick M. and Fannie C.P. Corse Professor.
- **The Lawrence Forensic Professorship of Speech** was established in 1965 by Edwin W. Lawrence, lawyer and financier of Rutland, Vermont, A.B., 1901. Alfred C. Snider, Associate Professor of Theatre, is the Lawrence Professor.
- **The Sanders Professorship** was established in 1968 by UVM alumni, honoring the Rev. Daniel Clarke Sanders, first president of the University.
- **The John L. Beckley Professorship in American Business** was established in 1983 by John L. Beckley, 1934 graduate of UVM a trustee from 1966 to 1970, to encourage economic education. James M. Sinkula, Professor of Business Administration, is the Beckley Professor.
- **The Bishop Robert F. Joyce Distinguished University Professorship of Gerontology** was established in 1983 by alumni and friends, honoring Robert F. Joyce, 1917 graduate, a trustee from 1948 to 1954, and Bishop of the R. C. Diocese of Burlington for 15 years. Stephen J. Cutler is the Joyce Professor.
- **The Buttles Professorship in Pathology** was established in 1984 to honor Ernest Hiram Buttles, Professor of Pathology and Bacteriology, 1921 to 1946. Bruce R. MacPherson is the Buttles Professor.
- **The McClure Professorship in Musculoskeletal Research** was established in 1988 by J. Warren and Lois H. McClure. Robert J. Johnson is the McClure Professor.
- **The E. L. Amidon Professorship in Medicine** was established in 1989 to honor Dr. E.L. Amidon, a revered teacher and former chair of the Department of Medicine. Dr. Burton E. Sobel is the Amidon Professor.
- **The Roger H. Allbee Endowed Research Fellowship in Surgery** was created in 1992 by Roger Allbee, M.D., '31, to provide support for a research fellow in the Department of Surgery. Michael A. Ricci is the Allbee Fellow in Surgery.
- **The Robert F. and Genevieve B. Patrick Endowed Professorship** was created in 1999 through a generous bequest from the estate of Genevieve Patrick. The endowment is intended to support the study or specialty of nephrology. Dr. F. John Gennari is the Patrick Professor.
- **The Gund Chair in Liberal Arts**, established in 1995 by Gordon and Lulie Gund, provides the College of Arts and Sciences with the opportunity to attract a leading teacher-scholar to one of the liberal arts disciplines. Phillip J. Cooper, Professor of Political Science, is the first Gund professor.
- **The Wallace Professorship in the Department of Pediatrics** was established in 1995 by the family of Harry W. Wallace to represent Mr. Wallace's philanthropic interests. Jerold F. Lucey is the Wallace Professor of Neonatology.
- **The Dorothean Professorship** was established in 1996 by Dr. Stuart Martin in memory of his wife, Dorothy Webster Martin, to support an outstanding individual

in the field of engineering or a related science. Sean Wang is the Dorothean Chair.

- **The Henry and Carleen Tufo Chair in General Internal Medicine** was created in 1999 by Henry M. and Carleen Ann Tufo to support continued excellence in teaching, research and patient care in General Internal Medicine. The Tufo Chair is held by Benjamin Littenberg, M.D.
- **The S.D. Ireland Family Professorship in Surgical Oncology** was established in 1999 in recognition of the cancer research being conducted at the University of Vermont by David N. Krag, M.D., who serves as the S.D. Ireland Family Professor.
- **The Patrick Chair in Watershed Planning and Science** was established in 2000 from a \$1.5 million gift from the estate of Genevieve Patrick, part of a \$9 million bequest to the University. W. "Breck" Bowden is the first Patrick chair.
- **The John Van Sicklen Maeck, M.D. Chair in Obstetrics and Gynecology** was established in 2000. It is the expressed wish of the Maeck family that the chair of the Department of Obstetrics and Gynecology hold this endowed faculty position. This position is currently held by Mark Phillippe, M.D., Chair and Professor of Obstetrics and Gynecology, he is the second person to hold the Maeck chair.
- **The Gund Professorship of Ecological Economics** was established in 2001 from part of a \$7.5 million gift from Gordon and Lulie Gund and their sons, Grant and Zachary. The first Gund professor is Robert Costanza, who also directs the Gund Institute of Ecological Economics.
- **The Stanley S. Fieber, M.D.'48 Chair in Surgery** was created in 2002 by Stanley S. Fieber, M.D. to enhance the research and educational activities of the Department of Surgery. Steven R. Shackford, M.D. is the Fieber Chair in Surgery.





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- [Absher, Richard G](#) - Professor of Electrical and Computer Engineering Emeritus
- [Aines, Linda D](#) - Associate Professor in Extension Emerita
- [Albee, George](#) - Professor of Psychology Emeritus
- [Albertini, Richard Joseph](#) - Professor of Microbiology and Molecular Genetics Emeritus, Professor of Pediatrics Emeritus
- [Allen, Christopher Whitney](#) - Professor of Chemistry Emeritus
- [Allen, Elizabeth Fleming](#) - Assistant Professor of Pathology Emerita
- [Allen Jr., Sinclair T.](#) - Professor of Medicine Emeritus
- [Alnasrawi, Abbas](#) - Professor of Economics Emeritus
- [Alpert, Norman R.](#) - Professor of Physiology and Biophysics Emeritus
- [Ambrose, Jane P.](#) - Professor Emeritus of Music

- [Anderson, Richard](#) - Professor of Electrical Engineering Emeritus
- [Andrea, Alfred J.](#) - Professor of History Emeritus
- [Andreas, Rosalind E.](#) - Assistant Professor of Education Emerita
- [Arns, Robert G.](#) - Professor of Physics Emeritus
- [Ashman, Jay Irwin](#) - Senior Lecturer of Community Development and Applied Economics Emeritus
- [Ashman, Marguerite G](#) - Extension Professor Emerita
- [Atherton, Henry V.](#) - Professor of Animal Science Emeritus
- [Atwood, Elizabeth F.](#) - Associate Professor of Merchandising, Consumer Studies, and Design Emerita

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- [Babbott, David](#) - Professor of Medicine Emeritus
- [Babbott, Frank L.](#) - Clinical Associate Professor of Medicine Emeritus
- [Balch, Donald J.](#) - Professor of Animal Science Emeritus
- [Ball, Howard](#) - Professor of Political Science Emeritus
- [Bandel, Betty](#) - Professor of English Emerita
- [Barbour, James](#) - Associate Professor of Integrated Professional Studies Emeritus
- [Barney, Bernard B.](#) - Associate Professor of Surgery Emeritus
- [Barnum, H. Gardiner](#) - Associate Professor of Geography Emeritus
- [Barrett, Evaline I.](#) - Associate Professor of Professional Nursing Emerita
- [Bartlett, Richmond J.](#) - Professor of Plant and Soil Science Emeritus
- [Beeken, Warren L.](#) - Professor of Medicine Emeritus
- [Beliveau, Jean-Guy Lionel](#) - Professor of Civil Environmental Engineering Emeritus
- [Bell, Ross T](#) - Professor of Biology Emeritus

- Bevan, Rosemary - Professor of Pharmacology Emerita
- Bevins, Malcolm - Professor of The Rubenstein School of Environment and Natural Resources Emeritus
- Biddle, Arthur W. - Professor of English Emeritus
- Bigalow, Charles - Extension Professor of Community Development and Applied Economics Emeritus
- Bishop, Kathleen - Associate Professor of Social Work Emerita
- Blair, Alice J. - Extension Associate Professor Emerita
- Bland, John H. - Professor of Medicine Emeritus
- Bliss, Francis R. - Professor of Classics Emerita
- Bloom, Thomas K. - Associate Professor of Community Development and Applied Economics Emeritus
- Bogorad, Samuel N. - Professor of English Emeritus
- Boller, Betty M. - Professor of Organizational, Counseling, and Foundational Studies Emerita
- Bolognani, Betty M. - Extension Instructor Emerita
- Bolton, Wesson D. - Professor of Animal Science Emeritus
- Boushey, Dallas R. - Assistant Professor of Anatomy and Neurobiology Emeritus
- Bousquet, Daniel W - Extension Associate Professor Emeritus
- Bouton, Edward - Extension Professor Emeritus
- Boyce, Bertie - Professor of Plant and Soil Science Emeritus
- Bradley, Anthony G. - Professor of English Emeritus
- Branch, Judy H. - Extension Associate Professor Emerita
- Brandenburg, Richard George - Professor of Business Administration Emeritus
- Braun Jr., Theodore - Associate Professor of Obstetrics and Gynecology Emeritus
- Breen, Mary E. - Associate Professor of Medical Technology Emerita
- Brenneman, Walter L. - Professor of Religion Emeritus
- Bright, William - Assistant Professor of Education Emeritus
- Bronstein, Phyllis - Professor of Psychology Emerita
- Brook, Munro S. - Extension Professor Emeritus
- Broughton, T. Alan - Professor of English Emeritus
- Brown, Joanne C. - Lecturer of Mathematics and Statistics Emerita
- Brown, John S. - Professor of Physics Emeritus
- Brown, Peter M - Associate Professor of Music Emeritus
- Bucke, David P. - Associate Professor of Geology Emeritus
- Buechler, John L. - Library Professor Emeritus
- Burdett, Carol A. - Assistant Professor of Education Emerita
- Burns, Stanley - Professor of Medicine Emeritus
- Burrell, Leon Frederick - Lecturer of Leadership and Developmental Sciences, Professor of Social Work Emeritus
- Buxton, Beatrice F. - Extension Associate Professor Emerita

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- [Caldwell, Martha M.](#) - Associate Professor of Textiles, Merchandising, and Consumer Studies Emerita
- [Campagna, Anthony](#) - Professor of Economics Emeritus
- [Capen, David Edward](#) - Research Professor of Natural Resources Emeritus
- [Capone, Angela Marie](#) - Associate Professor of Integrated Professional Studies Emerita
- [Carlson, Mary C](#) - Extension Assistant Professor Emerita
- [Carlson, Robert Verner](#) - Professor of Education Emeritus
- [Carpenter, Howard J.](#) - Associate Professor of Mechanical Engineering Emeritus
- [Carrard, Philippe](#) - Professor of Romance Languages Emeritus
- [Cassell, Eugene Alan](#) - Professor of The Rubenstein School of Environment and Natural Resources Emeritus
- [Chamberlain, Erling W.](#) - Professor of Mathematics Emeritus
- [Chamberlain, Valerie M.](#) - Professor of Nutrition and Food Sciences Emerita
- [Chapman, James Gliem](#) - Professor Emeritus of Music Emeritus

- [Chase, Marilyn](#) - Assistant Professor of Human Development Emerita
- [Chase, Richard X.](#) - Professor of Economics Emeritus
- [Cheney, Arthur H.](#) - Assistant Professor of Organizational, Counseling, and Foundational Studies Emeritus
- [Chiu, Jen-fu](#) - Professor of Biochemistry Emeritus
- [Christie, Lu S.](#) - Lecturer in Special Education Emerita
- [Clark, Virginia](#) - Professor of English Emerita
- [Clarke, John H.](#) - Professor of Education Emeritus
- [Clemmons, Jackson J.](#) - Professor of Pathology Emeritus
- [Cochran, Robert W.](#) - Professor of English Emeritus
- [Coffin Jr., Laurence H.](#) - Professor of Surgery Emeritus
- [Cohen, Julius G.](#) - Professor of Psychiatry Emeritus
- [Conrad, David](#) - Professor of Education Emeritus
- [Cook, Philip W.](#) - Associate Professor of Botany Emeritus
- [Cooke, Roger L.](#) - Professor of Mathematics and Statistics Emeritus
- [Corey, William M.](#) - Extension Professor Emeritus
- [Costante, Joseph](#) - Professor of Plant and Soil Science Emeritus
- [Craighead, John](#) - Professor of Pathology Emeritus
- [Crichfield, Grant](#) - Associate Professor of Romance Languages Emeritus
- [Cronin, Mary Julia](#) - Associate Professor of Nursing Emerita
- [Crouch, Milton H](#) - Library Professor Emeritus
- [Cutler, Stephen Joel](#) - Professor of Sociology Emeritus

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- [Danforth Jr., Elliot](#) - Professor of Medicine Emeritus
- [Daniels, Robert V.](#) - Professor of History Emeritus
- [Davis, John H.](#) - Professor of Surgery Emeritus
- [Davison, Jean M.](#) - Lyman-Roberts Professor of Classical Languages and Literature Emerita
- [Davison, William E.](#) - Professor of Honors College Emeritus
- [Deane, Robert S.](#) - Professor of Anesthesiology Emeritus
- [Deck, Edith F.](#) - Associate Professor of Professional Nursing Emerita
- [Demers, Louise Aline](#) - Associate Professor of Professional Nursing Emerita
- [Detenbeck, Robert W.](#) - Professor of Physics Emeritus
- [Dickerson, Mary J.](#) - Associate Professor of English Emerita
- [Dietzel, Cleason S.](#) - Clinical Associate Professor of Psychology Emeritus
- [Donnelly, John R.](#) - Professor of Natural Resources Emeritus



- [Doolan, Barry Lee](#) - Associate Professor of Geology Emeritus
- [Doremus, Henry M.](#) - Associate Professor of Animal Pathology Emeritus
- [Dowe, Thomas W.](#) - Professor of Animal Science Emeritus
- [Downer, Richard N.](#) - Associate Professor of Civil Engineering Emeritus
- [Drake, John C.](#) - Associate Professor of Geology Emeritus
- [Ducharme, Edward R.](#) - Professor of Organizational, Counseling, and Foundational Studies Emeritus
- [Dumville, Robert Whitney](#) - Extension Assistant Professor Emeritus
- [Dunkley, Thomas C.](#) - Assistant Professor of Human Development Studies Emeritus
- [Durfee, Herbert A.](#) - Professor of Obstetrics and Gynecology Emeritus
- [Duthie, Alexander](#) - Professor of Animal Science Emeritus
- [Dwork, Julius S.](#) - Associate Professor of Mathematics Emeritus

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<a href="#">Y</a>	<a href="#">Z</a>					

- [Eddy, Dwight K.](#) - Extension Professor of Agricultural and Resource Economics Emeritus
- [Edgerton, James A.](#) - Extension Professor Emeritus
- [Edwards, Margaret F.](#) - Associate Professor of English Emerita
- [Elkins, Alan M.](#) - Professor of Psychiatry Emeritus
- [Elliott, Carolyn Margaret](#) - Professor of Political Science Emerita
- [Elliott, Norris A.](#) - Extension Associate Professor Emeritus
- [Emerson, Faith G.](#) - Associate Professor of Professional Nursing Emerita
- [Emery III, E. Stanley](#) - Professor of Neurology Emeritus
- [Erb, Clinton A.](#) - Associate Professor of Education Emeritus
- [Eschholz, Paul A](#) - Professor of English Emeritus
- [Etherton, Bud](#) - Professor of Botany Emeritus
- [Evering, Frederick C.](#) - Professor of Electrical and Computer Engineering Emeritus

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- [Farnham, John](#) - Clinical Professor of Surgery Emeritus
- [Farr, Gordon V.](#) - Extension Associate Professor Emeritus
- [Feidner, Edward J.](#) - Professor of Theatre Emeritus
- [Feitelberg, Samuel](#) - Professor of Physical Therapy Emeritus
- [Felt, Jeremy P.](#) - Professor of History Emeritus
- [Fengler, Alfred Paul](#) - Associate Professor of Sociology Emeritus
- [Fengler-Stephany, Christie](#) - Associate Professor of Art Emerita
- [Fenton, Ardith](#) - Instructor in Extension System Emerita
- [Fife, C. Lynn](#) - Associate Professor of Community Development and Applied Economics Emerita
- [Finney, Henry C.](#) - Associate Professor of Sociology Emeritus
- [Fishman, Laura T.](#) - Associate Professor of Sociology Emerita
- [Fitzgerald, Martha D.](#) - Research Professor of Education Emerita
- [Fives-Taylor, Paula M.](#) - Professor of Microbiology and Molecular Genetics Emerita

- Flanagan, Ted B - Professor of Chemistry and Mechanical Engineering Emeritus
- Flanagan, Theodore R. - Extension Associate Professor of Plant and Soil Science Emeritus
- Foote, Murray W. - Associate Professor of Microbiology and Biochemistry Emeritus
- Forgione, Rose J. - Associate Professor of Nursing Emerita
- Forsyth, Ben R. - Professor of Medicine Emeritus
- Foss, Donald C - Professor of Agriculture and Life Science Emeritus
- Francis, Gerald P. - Professor of Mechanical Engineering Emeritus
- Freedman, Steven - Associate Professor of Anatomy and Neurobiology Emeritus
- Frey, Lois - Extension Associate Professor Emeritus
- Friedman, Edward E. - Professor of Family Practice Emeritus
- Frymoyer, John W - Professor of Orthopaedics and Rehabilitation Emeritus
- Fuller, Gerald R. - Professor of Vocational Education and Technology Emeritus
- Fuller, Robert W. - Assistant Professor of Environment and Natural Resources Emeritus
- Fulwiler, Laura - Senior Lecturer of Elementary Education Emerita
- Fulwiler, Toby Edward - Professor of English Emeritus

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- [Gade, Daniel W.](#) - Professor of Geography Emeritus
- [Gans, Joseph H.](#) - Professor of Pharmacology Emeritus
- [Gay, Barbara T.](#) - Library Associate Professor Emerita
- [Geno, Marie](#) - Lecturer in Romance Languages Emerita
- [Geno, Thomas H.](#) - Associate Professor of Romance Languages Emeritus
- [Gibson, Kenneth S.](#) - Extension Professor in Animal and Food Sciences Emeritus
- [Gibson, Thomas C.](#) - Professor of Medicine Emeritus
- [Gilbert, Alphonse H.](#) - Associate Professor of The Rubenstein School of Environment and Natural Resources Emeritus
- [Gillies, Ellen M.](#) - Library Professor of the Medical Library Emerita
- [Gobin, Robert J.](#) - Professor of Human Development Studies Emeritus
- [Gomez, Antonio J.](#) - Associate Professor of Neurology Emeritus
- [Goodhouse, Edward W.](#) - Extension Associate Professor Emeritus

- [Gora, Irene T.](#) - Lecturer of Merchandising, Consumer Studies and Design Emerita
- [Gordon, Lawrence Russell](#) - Professor of Psychology Emeritus
- [Gotlieb, Alan B.](#) - Extension Professor of Plant and Soil Sciences Emeritus
- [Gould, Nathaniel](#) - Associate Professor of Orthopaedics and Rehabilitation Emeritus
- [Graham, William G.](#) - Professor of Medicine Emeritus
- [Greig, Harold A.](#) - Assistant Professor of Human Development Emeritus
- [Gribbons, Jackie Marie](#) - Assistant Professor of Integrated Professional Studies Emerita
- [Grime, Philip K.](#) - Extension Professor Emeritus
- [Grinnell, Dale Jacques](#) - Professor of Business Administration Emeritus
- [Gump, Dieter W.](#) - Professor of Medicine Emeritus
- [Gussner, Robert E.](#) - Associate Professor of Religion Emeritus

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- [Haines, Carleton R.](#) - Associate Professor of Surgery Emeritus
- [Hall, Mary](#) - Associate Professor of English Emerita
- [Hall, Robert](#) - James Marsh Professor of Philosophy Emeritus
- [Halpern, William](#) - Professor of Physiology and Biophysics Emeritus
- [Hamrell, Burt Benjamin](#) - Professor of Medicine Emeritus, Professor of Molecular Physiology and Biophysics Emeritus
- [Hand, Samuel B.](#) - Professor of History Emeritus
- [Handelsman, Morris](#) - Professor of Electrical Engineering Emeritus
- [Hanley, Edward M.](#) - Professor of Professional Education and Curriculum Development Emeritus
- [Hannah, Peter R.](#) - Professor of The Rubenstein School of Environment and Natural Resources Emeritus

- [Hanson, John S.](#) - Professor of Medicine Emeritus
- [Happ, George](#) - Professor of Biology Emeritus
- [Harris, Everett W.](#) - Associate Professor of Community Development and Applied Economics Emeritus
- [Hart, Beth A](#) - Professor of Biochemistry Emerita
- [Harvey, Lydia H](#) - Extension Assistant Professor Emerita
- [Hasazi, Joseph E.](#) - Associate Professor of Psychology Emeritus
- [Haviland, William A.](#) - Professor of Anthropology Emeritus
- [Heinrich, Bernd](#) - Professor of Biology Emeritus
- [Helzer, John Earl](#) - Professor of Psychiatry Emeritus
- [Hendley, Edith D.](#) - Professor of Molecular Physiology and Biophysics Emerita
- [Hermance, Clarke E](#) - Professor of Mechanical Engineering Emeritus
- [Higgins, Daniel W](#) - Professor of Art Emeritus
- [Hilberg, Raul](#) - Professor of Political Science Emeritus
- [Hill, H. Charles](#) - Associate Professor of Dental Hygiene Emeritus
- [Hirth, David Hammond](#) - Associate Professor of Wildlife and Fisheries Biology Emeritus
- [Hochheiser, Louis I](#) - Professor of Family Practice Emeritus
- [Hong, Richard](#) - Clinical Professor of Pediatrics Emeritus
- [Honnold, Robert E.](#) - Extension Professor Emeritus
- [Hood, Kenneth W.](#) - Assistant Professor of Education Emeritus
- [Hopp, Susan M.](#) - Research Associate Professor of Agriculture Emerita
- [Horton, Chesley P.](#) - Extension Assistant Professor Emeritus
- [Horton, Edward S.](#) - Professor of Medicine Emeritus
- [Houghaboom, Verle R.](#) - Extension Professor of Agricultural and Resource Economics Emeritus
- [Houston, Charles S.](#) - Professor of Epidemiology and Environmental Health Emeritus
- [Howard, Phillip](#) - Professor of Pathology Emeritus
- [Howe IV, James Robinson](#) - Professor of English Emeritus
- [Howell, David C.](#) - Professor of Psychology Emeritus
- [Huddle, David Ross](#) - Professor of English Emeritus
- [Huessy, Hans Rosenstock](#) - Professor of Psychiatry Emeritus
- [Hundal, Mahendra S.](#) - Professor of Mechanical Engineering Emeritus
- [Hunt, Allen](#) - Professor of Geology Emeritus
- [Hutton, Patrick H.](#) - Professor of History Emeritus
- [Hyde, Beal B.](#) - Professor of Botany Emeritus



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- [Irwin, Alan Emory](#) - Professor of Surgery Emeritus
- [Irwin, Edward Suter](#) - Clinical Professor of Surgery Emeritus
- [Ives, John O.](#) - Associate Professor of Psychiatry Emeritus
- [Izzo, Joseph A.](#) - Professor of Mathematics Emeritus
- [Izzo, Louis Mario](#) - Associate Professor of Medical Laboratory and Radiation Sciences Emeritus

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<a href="#">Y</a>	<a href="#">Z</a>					

- [Jaffe, Julian J.](#) - Professor of Pharmacology Emeritus
- [Jameson, DeeDee M.](#) - Assistant Professor of Human Development Emeritus
- [Janson, Richard H.](#) - Professor of Art Emeritus
- [Jarvis, Lynville W.](#) - Extension Professor Emeritus
- [Joffe, Justin Manfred](#) - Professor of Psychology Emeritus
- [Johansson, Jan Erik](#) - Lecturer of Mathematics and Statistics Emeritus
- [Johnson, Robert Jonathan](#) - Professor of Orthopaedic Surgery Emeritus
- [Johnstone, Donald B.](#) - Professor of Microbiology and Biochemistry Emeritus
- [Jokela, William E](#) - Associate Professor of Plant and Soil Science Emeritus
- [Jones, Leonidas M.](#) - Frederick and Fanny Corse Professor Emeritus
- [Julow, Roy G.](#) - Associate Professor of Romance Languages Emeritus

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<a href="#">Y</a>	<a href="#">Z</a>					

- [Kapp, Bruce S](#) - Professor of Psychology Emeritus
- [Kasprisin, Christina Algiere](#) - Clinical Assistant Professor of Nursing Emerita
- [Kebabian, Paul](#) - Library Professor Emeritus
- [Keller, Jay E.](#) - Associate Professor of Surgery Emeritus
- [Kelly, William H.](#) - Associate Professor of Community Development and Applied Economics Emeritus
- [Kinnard, Douglas](#) - Professor of Political Science Emeritus
- [Kinsey, David L.](#) - Associate Professor of Music Emeritus
- [Koplewitz, Martin J.](#) - Associate Professor of Surgery Emeritus
- [Korson, Roy](#) - Professor of Pathology Emeritus
- [Krapchow, A. Paul](#) - Professor of Chemistry Emeritus
- [Kristiansson, Karin](#) - Extension Professor Emerita
- [Kuehne, Martin E](#) - Professor of Chemistry Emeritus
- [Kuhlmann, Raymond Frank](#) - Clinical Professor of Orthopedics and Rehabilitation Emeritus

- Kunin, Arthur S. - Professor of Medicine Emeritus
- Kunkel, John R. - Extension Associate Professor of Plant and Soil Science Emeritus

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- [Laber, Gene](#) - Professor of Business Administration Emeritus
- [Laferrriere, Mary E.](#) - Lecturer in Professional Nursing Emerita
- [Laing, Frederick M.](#) - Research Associate Professor of Botany Emeritus
- [Lambert, Denis E.](#) - Assistant Professor of Human Development Emeritus
- [Lambert, Lloyd](#) - Professor of Physics Emeritus
- [Lamden, Merton P.](#) - Professor of Biochemistry Emeritus
- [Lamoray, A. Rosemary](#) - Lecturer of Dental Hygiene Emerita
- [Landesman, Richard H.](#) - Associate Professor of Biology Emeritus
- [Lang, Helene Wanda](#) - Associate Professor of Education Emeritus, Lecturer of Leadership and Developmental Sciences
- [Larson, Karin](#) - Lecturer of Mathematics and Statistics Emerita
- [Larson, Robert L.](#) - Professor of Education Emeritus
- [Leamy, William P.](#) - Extension Associate Professor of Animal Science Emeritus
- [Leff, Herbert Leroy](#) - Associate Professor of Psychology Emeritus

- [Leggett, Leslie](#) - Professor of Human Development Studies Emerita
- [Leitenberg, Harold](#) - Professor of Psychology Emeritus
- [Letteri, Charles A](#) - Associate Professor of Education Emeritus
- [Lewin, Carroll](#) - Associate Professor of Anthropology Emerita
- [Lewis, Gordon F.](#) - Professor of Sociology Emeritus
- [Lewis, John D.](#) - Associate Professor of Obstetrics and Gynecology Emeritus
- [Lewis, William J.](#) - Professor of Sociology Emeritus
- [Lidral, Frank Wayne](#) - Professor of Music Emeritus
- [Liebs, Chester](#) - Professor of History Emeritus
- [Lind, Aulis](#) - Associate Professor of Geography Emeritus
- [Lindsay, John](#) - Associate Professor of The Rubenstein School of Environment and Natural Resources Emeritus
- [Linton, Peter C.](#) - Associate Professor of Surgery Emeritus
- [Lipke, William Charles](#) - Professor of Art Emeritus
- [Lipson, Marjorie Youmans](#) - Professor of Education Emerita, Professor of Literacy and Elementary Education Emerita
- [Little, George T.](#) - Professor of Political Science Emeritus
- [Livak, Joyce K.](#) - Associate Professor of Nutritional Sciences Emerita
- [Lochhead, John H.](#) - Professor of Zoology Emeritus
- [Loewen, James William](#) - Professor of Sociology Emeritus
- [Long, Littleton](#) - Professor of English Emeritus
- [Low, Elizabeth Sloan](#) - Lecturer of Mathematics and Statistics Emeritus
- [Lubker, James](#) - Professor of Communication Sciences Emeritus
- [Luginbuhl, William H.](#) - Professor of Pathology Emeritus

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- [Maccollom, George B.](#) - Professor of Plant and Soil Science Emeritus
- [MacPherson, Brian Verne](#) - Lecturer of Mathematics and Statistics Emeritus
- [MacPherson, Bruce Reed](#) - Associate Professor of Pathology Emeritus
- [Magee, Francis E.](#) - Assistant Professor of Nursing Emerita
- [Manchel, Frank](#) - Professor of English Emeritus
- [Marshall, Gilbert A.](#) - Professor of Mechanical Engineering Emeritus
- [Martin, Hebert L.](#) - Professor of Neurology Emeritus
- [Massonneau, Suzanne](#) - Library Professor Emerita
- [Maughan, David Wayne](#) - Research Professor of Molecular Physiology and Biophysics Emeritus
- [Mazuzan, John E.](#) - Professor of Anesthesiology Emeritus
- [McGrath, Helen](#) - Professor of Nursing Emerita
- [McAree, Christopher](#) - Associate Professor of Psychiatry Emeritus
- [McCann, H. Gilman](#) - Associate Professor of Sociology Emeritus

- McConaughy, Stephanie Hooker - Research Professor of Psychiatry Emeritus
- McCormack, John Joseph - Professor of Pharmacology Emeritus
- McCormick, Thomas J. - Extension Professor Emeritus
- McCrorey, H. Lawrence - Professor of Molecular Physiology and Biophysics Emeritus
- McEntee, Harry J. - Assistant Professor of Education Emeritus
- McFeeters, Donald J. - Extension Professor Emeritus
- McGill, J. Bishop - Associate Professor of Surgery Emeritus
- McKay Jr., Robert J. - Professor of Pediatrics Emeritus
- McLean, Donald L. - Professor of Plant and Soil Science Emeritus
- McSweeney, Douglas E. - Assistant Professor of Surgery Emeritus
- Mead, Philip Bartlett - Clinical Professor of Obstetrics and Gynecology Emeritus
- Melville, Donald B. - Professor of Biochemistry Emeritus
- Mercia, Leonard S. - Extension Professor Emeritus
- Meserve, Bruce E. - Professor of Mathematics Emeritus
- Metcalfe, Marion E. - Lecturer in Music Emerita
- Metcalfe, William - Professor of History Emeritus
- Meyer, Diane H. - Research Assistant Professor of Microbiology and Molecular Genetics Emerita
- Meyer, William L. - Professor of Biochemistry Emeritus
- Milhous, Raymond Lee - Professor of Orthopaedics and Rehabilitation Emeritus
- Miller, Donald B. - Associate Professor of Surgery Emeritus
- Miller, Willard Marshall - Assistant Professor of Philosophy Emeritus
- Milligan, Jean B. - Professor of Professional Nursing Emerita
- Mitchell, William - Professor of Anthropology Emeritus
- Moehring, Joan M. - Research Professor of Microbiology and Molecular Genetics Emerita
- Moehring, Thomas - Professor of Microbiology and Molecular Genetics Emeritus
- Moffroid, Mary T. - Professor of Physical Therapy Emerita
- Moore, Molly - Lecturer of English Emerita
- Morency, David Charles - Lecturer of Mathematics and Statistics Emeritus
- Morselli, Maria-Franca C. - Research Professor of Botany Emerita
- Moser, Donald E. - Professor of Mathematics Emeritus
- Mulieri, Louis Anthony - Research Associate Professor of Molecular Physiology and Biophysics Emeritus
- Munger, Bethia N. - Extension Associate Professor Emerita
- Murphy, William Michael - Professor of Plant and Soil Science Emeritus
- Murray, Barbara Lee - Associate Professor of Nursing Emerita
- Murray, Roger - Research Associate Professor of Animal and Food Sciences Emeritus
- Myott, Lawrence B. - Extension Associate Professor Emeritus



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<a href="#">Y</a>	<a href="#">Z</a>					

- [Nadworny, Milton J.](#) - Professor of Economics Emeritus
- [Newton, David P.](#) - Extension Professor Emeritus
- [Nichols, Beverly A.](#) - Associate Professor of Education Emerita
- [Nielsen, Gordon R.](#) - Extension Assistant Professor of Plant and Soil Science Emeritus
- [Novotny, Charles P.](#) - Professor of Microbiology and Molecular Genetics Emeritus
- [Nyborg, Wesley L.](#) - Professor of Physics Emeritus

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<a href="#">Y</a>	<a href="#">Z</a>					

- [Olson, James Paul](#) - Associate Professor of Civil and Environmental Engineering Emeritus
- [Oppenlander, Joseph C.](#) - Professor of Civil and Environmental Engineering Emeritus
- [Orth, Ghita](#) - Lecturer of English Emerita
- [Orth, Ralph](#) - Professor of English Emeritus
- [Outwater, John O.](#) - Professor of Mechanical Engineering Emeritus
- [Owre, Edwin M](#) - Professor of Art Emeritus

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- [Pacy, James S.](#) - Professor of Political Science Emeritus
- [Paden, William Edward](#) - Professor of Religion Emeritus
- [Page, Dorothy](#) - Associate Professor of Physical Therapy Emerita
- [Page, H. Gordon](#) - Professor of Surgery Emeritus
- [Page, John C.](#) - Extension Professor Emeritus
- [Palmer, Mary Ellen](#) - Associate Professor of Nursing Emerita
- [Paolucci-Whitcomb, Phyllis E.](#) - Professor of Social Work Emerita
- [Paquette, Lucien D.](#) - Extension Professor Emeritus
- [Parks, Donald R.](#) - Assistant Professor of Education Emeritus
- [Pellett, Norman](#) - Professor of Plant and Soil Science Emeritus
- [Pelsue, Neil Hugh](#) - Extension Associate Professor Emeritus
- [Peterson, James A.](#) - Professor of Integrated Professional Studies Emeritus
- [Petrusich, Mary M.](#) - Professor of Human Development Studies Emerita

- [Phillips, Carol F](#) - Professor of Pediatrics Emerita
- [Pilcher, David B.](#) - Professor of Surgery Emeritus
- [Poger, Sidney B.](#) - Professor of English Emeritus
- [Porter, Monica B.](#) - Extension Associate Professor Emerita
- [Portnow, Nancy Baldwin](#) - Library Professor Emerita
- [Potash, Milton](#) - Professor of Zoology Emeritus
- [Powell, Agnes T.](#) - Associate Professor of Human Nutrition and Foods Emerita
- [Power, Marjory W.](#) - Associate Professor of Anthropology Emerita
- [Powers, Patricia](#) - Associate Professor of Anatomy and Neurobiology Emerita
- [Price, John R.](#) - Extension Assistant Professor Emeritus

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- [Racusen, David](#) - Professor of Agricultural Biochemistry Emeritus
- [Raper, Carlene Allen](#) - Research Associate Professor of Microbiology and Molecular Genetics Emerita
- [Rathbone, Charles](#) - Associate Professor of Education Emeritus
- [Razza, Mary Lou](#) - Research Associate Professor of Education Emeritus
- [Reagin, Dolores M.](#) - Assistant Professor of Organizational, Counseling, and Foundational Studies Emerita
- [Reardon, Mildred Ann](#) - Professor of Medicine Emerita
- [Reidel, Carl H.](#) - Professor of Environmental Studies Emeritus
- [Reinhardt, John E.](#) - Professor of Political Science Emeritus
- [Reit, Ernest](#) - Associate Professor of Pharmacology Emeritus
- [Richardson, Jean](#) - Professor of Natural Resources Emerita

- Richel, Veronica C. - Associate Professor of German Emerita
- Riggs, Heath K. - Professor of Mathematics Emeritus
- Rippa, Alexander S. - Professor of Organizational, Counseling, and Foundational Studies Emeritus
- Rogers, David L. - Lecturer of Animal Science Emeritus
- Roland, Margaret - Associate Professor of Art Emerita
- Rosa, Alfred F - Professor of English Emeritus
- Rosen, James C - Professor of Psychology and Psychiatry Emeritus
- Roth, Wilfred - Professor of Electrical Engineering Emeritus
- Rothwell, Kenneth - Professor of English Emeritus
- Royce, Blanche E. - Lecturer of Education Emerita
- Ruess, Johanna - Assistant Professor of Orthopaedics and Rehabilitation Emerita
- Runge, Carl F. - Associate Professor of Medicine Emeritus
- Russo, Joseph N. - Clinical Assistant Professor of Obstetrics and Gynecology Emeritus

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- [Sachs, Thomas D.](#) - Associate Professor of Physics Emeritus
- [Sampson, Samuel F.](#) - Professor of Sociology Emeritus
- [Sande, Diane R.](#) - Lecturer of Nursing Emerita
- [Sandoval, Dolores](#) - Associate Professor of Education Emerita
- [Sargent, Frederic O.](#) - Professor of Agricultural and Resource Economics Emeritus
- [Savitt, Ronald](#) - Professor of Business Administration Emeritus
- [Sawyer, Janet R.](#) - Professor of Professional Nursing Emerita
- [Scarfone, Leonard M.](#) - Professor of Physics Emeritus
- [Schaeffer, Warren I.](#) - Professor of Microbiology and Molecular Genetics Emeritus
- [Schenk, William M.](#) - Professor of Theatre Emeritus
- [Schlunk, Robin R.](#) - Professor of Classics Emerita
- [Schmidt, Frederick Eberhard](#) - Associate Professor of Community Development and Applied Economics Emeritus
- [Schmokel, Wolfe W.](#) - Professor of History Emeritus

- Schoonmaker, N. James - Professor of Mathematics Emeritus
- Schultz, Harold S. - Professor of History Emeritus
- Schultz, Herbert L. - Associate Professor of Music Emeritus
- Schumacher, George A. - Professor of Neurology Emeritus
- Schwalb, Roberta B. - Associate Professor of Professional Nursing Emerita
- Scrase, David Anthony - Professor of German Emeritus
- Secker-Walker, Roger - Professor of Medicine Emeritus
- Sekerak, Robert John - Library Associate Professor Emeritus
- Senghas, Dorothy C. - Library Assistant Professor in Dana Medical Library Emerita
- Severance, Malcolm F. - Professor of Business Administration Emeritus
- Seybolt, Peter Jordan - Professor Emeritus of Asian Languages & Literatures
- Shea, William I. - Associate Professor of Surgery Emeritus
- Shepherd, Allen G. - Professor of English Emeritus
- Shinozaki, Tamotsu - Professor of Anesthesiology Emeritus
- Simmons, K. Rogers - Associate Professor of Animal Science Emeritus
- Simon, Morris L. - Associate Professor of Political Science Emeritus
- Sims, Ethan Allen - Professor of Medicine Emeritus
- Sinclair, Robert O. - Professor of Agricultural and Resource Economics Emeritus
- Sjogren, Robert - Associate Professor of Microbiology and Molecular Genetics Emeritus
- Smith, Albert M. - Professor of Animal and Food Sciences Emeritus
- Smith, David Young - Professor of Physics Emeritus
- Snow, William Charles - Extension Associate Professor Emeritus
- Soule, Phyllis M. - Assistant Professor of Nutritional Sciences Emerita
- Spinner Jr., Thomas J. - Professor of History Emeritus
- Sproul, Marga Susan - Associate Professor of Family Medicine Emerita
- Squire, Horace - Associate Professor of Business Administration
- Stanfield, Robert E. - Professor of Sociology Emeritus
- Stanton, Michael Neill - Associate Professor of English Emeritus
- Staron, Stanislaw J. - Professor of Political Science Emeritus
- Steele, Doris H. - Extension Professor Emerita
- Steen, M. Dale - Extension Associate Professor Emerita
- Steffenhagen, Ronald A. - Professor of Sociology Emeritus
- Steffens, Henry J. - Professor of History Emeritus
- Stephany, William A. - Professor of English Emeritus
- Stephenson, John F. - Extension Professor Emeritus
- Stevens, Dean F. - Associate Professor of Zoology Emeritus
- Stevenson, S. Christopher - Professor of Education Emeritus
- Stinebring, Warren R. - Professor of Microbiology Emeritus
- Stirewalt, William S. - Associate Professor of Obstetrics and Gynecology Emeritus



- [Stout, Neil R.](#) - Professor of History Emeritus
- [Strassburg, Kathleen](#) - Extension Professor of Textiles, Merchandising and Consumer Studies Emerita
- [Strauss, Michael John](#) - Professor of Chemistry Emeritus
- [Stryker III, Barent W.](#) - Extension Professor Emeritus
- [Sullivan, Anne Marie](#) - Associate Professor of Biomedical Technologies Emerita
- [Sumner, J Williams](#) - Extension Assistant Professor Emeritus
- [Sweterlitsch, Richard Carl](#) - Associate Professor of English Emeritus

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- [Tabakin, Burton S.](#) - Professor of Medicine Emeritus
- [Tashman, Leonard Jay](#) - Associate Professor of Business Administration Emeritus
- [Taylor, Fred](#) - Professor of Botany Emeritus
- [Thanassi, John W.](#) - Professor of Biochemistry Emeritus
- [Thibault, Marlene](#) - Extension Professor of Community Development and Applied Economics Emerita
- [Thimm, Alfred L.](#) - Professor of Business Administration Emeritus
- [Thompson, Harry L.](#) - Associate Professor of Social Work Emeritus
- [Thompson, Lee J](#) - Professor of English Emeritus
- [Thompson, Noah C.](#) - Extension Professor Emeritus
- [Tindle, Barbara Heywood](#) - Associate Professor of Pathology
- [Tisdale, William A.](#) - Professor of Medicine Emeritus
- [Tormey, David M.](#) - Professor of Family Practice Emeritus
- [Townsend, Robert L.](#) - Extension Professor Emeritus
- [Trainer, Thomas D.](#) - Professor of Pathology Emeritus

- [Tremblay, Raymond H.](#) - Professor of Agricultural and Resource Economics Emeritus
- [Trent, Elizabeth Scannell](#) - Extension Associate Professor for Community Development and Applied Economics Emerita
- [True., Marshall M.](#) - Associate Professor of History Emeritus
- [Tufo, Henry M.](#) - Professor of Medicine Emeritus
- [Tuthill, Arthur F.](#) - Professor of Mechanical Engineering Emeritus
- [Tuxbury, Vernon](#) - Extension Associate Professor of Community Development and Applied Economics Emeritus
- [Twardy, Edward Stuart](#) - Associate Professor of Public Administration Emeritus

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- [Ugalde, Louis Maldonado](#) - Professor of Romance Languages Emeritus
- [Ullrich, Robert C.](#) - Professor of Botany and Agricultural Biochemistry Emeritus
- [Ure, Helena A.](#) - Associate Professor of Professional Nursing Emerita

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<a href="#">Y</a>	<a href="#">Z</a>					

- [Van Buren, H. Carmer](#) - Associate Professor of Medicine Emeritus
- [Van Buskirk, David](#) - Associate Professor of Psychiatry Emeritus
- [Vander Meer, Canute](#) - Professor of Geography Emeritus
- [Vane, Dennis William](#) - Professor of Surgery and Pediatrics Emeritus
- [Vogelmann, Hubert W.](#) - Professor of Botany Emeritus
- [Von Turkovich, Branimir Francis](#) - Professor of Mathematics and Statistics Emeritus, Professor of Mechanical Engineering Emeritus

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- [Waller, Julian A.](#) - Professor of Medicine Emerita
- [Wallman, Lester J.](#) - Professor of Neurosurgery Emeritus
- [Wang, Jue-Fei](#) - Research Professor of Educational Leadership and Policy Studies Emeritus
- [Watson, Frank](#) - Lecturer in Education Emeritus
- [Way, Winston A.](#) - Extension Professor of Plant and Soil Science Emeritus
- [Weaver, Lelon Jr. A.](#) - Associate Professor of Psychology Emeritus
- [Webb, George](#) - Associate Professor of Molecular Physiology and Biophysics Emeritus
- [Webster, Fred C.](#) - Professor of Agricultural and Resource Economics Emeritus
- [Webster, Selina M.](#) - Professor of Clothing, Textiles, and Design Emerita
- [Weed, Lawrence L.](#) - Professor of Medicine Emeritus
- [Weiger, John G.](#) - Professor of Romance Languages Emeritus
- [Weiner, Sheldon](#) - Professor of Psychiatry Emeritus
- [Weinrich, Francis A.](#) - Assistant Professor of Music Emeritus

- [Welch, James](#) - Professor of Animal and Food Sciences Emeritus
- [Welch, Lorraine M](#) - Associate Professor of Nursing Emerita
- [Weller, David L](#) - Professor of Botany and Agricultural Biochemistry Emeritus
- [Wells, Joseph](#) - Professor of Anatomy and Neurobiology Emeritus
- [Welsh, George William](#) - Associate Professor of Medicine Emeritus
- [Weltin, Eugen E.](#) - Associate Professor of Chemistry Emeritus
- [Wertheimer, Alan Philip](#) - Professor of Political Science Emeritus
- [Wesseling, Pieter](#) - Associate Professor of Romance Languages Emeritus
- [Wessinger, Nancy B](#) - Associate Professor of Education Emerita
- [Whaples, Donald R.](#) - Extension Professor Emeritus
- [White, Robert E.](#) - Extension Assistant Professor Emeritus
- [White, William N.](#) - Professor of Chemistry Emeritus
- [Whitebook, Susan M.](#) - Assistant Professor of Romance Languages Emerita
- [Whitmore Jr., Roy A.](#) - Professor of The Rubenstein School of Environment and Natural Resources Emeritus
- [Whittlesey, Margaret B.](#) - Associate Professor of Special Education Emerita
- [Wiggans, Samuel C.](#) - Professor of Plant and Soil Science Emeritus
- [Wigness, Robert C.](#) - Professor of Music Emeritus
- [Williams, Blair](#) - Professor of Human Nutrition and Foods Emeritus
- [Willmuth, Lewis R.](#) - Associate Professor of Psychiatry Emeritus
- [Wilson, Mary S.](#) - Professor of Communication Sciences Emerita
- [Winstead-fry, Patricia](#) - Professor of Nursing Emerita
- [Wood, Glen M.](#) - Professor of Plant and Soil Science Emeritus
- [Wood, Hazen F.](#) - Coordinator of the Professional Laboratory Experiences Emeritus
- [Woodruff, William A.](#) - Associate Professor of Psychiatry Emeritus
- [Woodworth, Robert C.](#) - Professor of Biochemistry Emeritus
- [Woolfson, Peter](#) - Professor of Anthropology Emeritus
- [Wootton, Dorothy](#) - Associate Professor of Dental Hygiene Emerita
- [Worley, Ian Almer](#) - Professor Emeritus in the Rubenstein School of Environment and Natural Resources
- [Wright, Robert Kingman](#) - Professor of Mathematics Emeritus

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- [Young, William J.](#) - Professor of Anatomy and Neurobiology Emeritus



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- [Zarate, Armando](#) - Professor of Spanish Emeritus
- [Zucker, Barbara M](#) - Professor of Art Emerita