

**The University of Vermont**  
**Proposed Course Changes as of October 4, 2021 (includes course action forms reaching the Provost's Office between February 16, 2021 and October 4, 2021).**  
**Review Period for these Changes Ends October 20, 2021.**

The following Course Action Forms have been submitted and are ready for entry into Banner. Per the Course Action process, proposed changes will be made available for public review. If no objections are raised, the Course Action Forms will be sent to the Registrar's Office for inclusion in the University Course Listing and the next published Catalogue, effective Fall 2022.

In the event questions are raised, the Provost's Office should be notified (Kerry Castano) and the departments and programs involved should meet to resolve the issue in accord with the Faculty Senate Course Mediation Process found on the Faculty Senate website:  
<http://www.uvm.edu/sites/default/files/CourseMediationProcessSenate.pdf>

The information provided for proposed new courses is abbreviated. You may view complete forms by logging into CourseLeaf and conducting a "Quick Search" for "Added" courses. The information provided for existing courses is limited to proposed changes. To see complete forms, log into CourseLeaf and conduct a "Quick Search" for "Edited" courses. The link to CourseLeaf is here:  
<https://www.uvm.edu/provost/course-action-forms>

Proposed Courses  
 Revised Courses

COURSE	TITLE	FORM FIELD	CURRENT COURSE INFORMATION	NEW COURSE INFORMATION
ANTH 240	Human Osteology	Catalog Prerequisites	ANTH 024, ANTH 026, one 100-level Anthropology course in archaeology or biological anthropology (see major requirements for subdisciplinary designations), or Instructor permission.	ANTH 024, ANTH 026, one 100-level Anthropology course in archaeology or biological anthropology, or Instructor permission.
		Change Justification	Change title from "Human Osteology & Archaeology" to "Human Osteology." Instructors can introduce archaeological content as needed, but the term is unnecessary in the title (and restricts content).	Removed "(see major requirements for subdisciplinary designations)" because there are no longer subdisciplinary designations in the major requirements.
ASCI 217	Topics in Applied Reproduction	Repeatable	No	Yes
		Description	Laboratory for fundamental principles of the physiology of reproduction with emphasis on, but not limited to, farm animals. Must be taken concurrently with ASCI 215.	Laboratory for fundamental principles of the physiology of reproduction with emphasis on, but not limited to, farm animals. Must be taken concurrently with ASCI 215. Topics vary by offering; periodic offering at intervals that may exceed four years.
		Change Justification	Prerequisites updated due to a course change	ASCI 217 is used for several sections of reproduction workshops. Students can take one of these or all of these. If they take multiple sections, they should receive credit for each one. Currently, there are two sections: Bovine Reproduction and Equine Reproduction Workshop.
BIOL 119	Vertebrate Zoology	Added		
		College/School		College of Arts and Sciences
		Department/Program		Biology
		Subject Prefix		Biology
		Credits		3
		Catalog Prerequisites		[(BCOR 011 or BIOL 001) and (BCOR 012 or BIOL 002)] or BCOR 021.
		Description		Explores vertebrate diversity using the tools of evolutionary tree diagrams, structure and function relationships, ecology, and paleontology.
		Course Seeking Graduate Credit?		No
		Course - Academic Merit		This course is an important extension of the introduction to vertebrate diversity students receive in their introductory biology classes. It is one of a small number of courses in biology with an organismal focus. It also fulfills a need for 100 level courses in biology that satisfy requirements for both majors and minors.
		Effects on Other Departments		none
BIOL 256	Physiology of Global Change	Added		
		College/School		College of Arts and Sciences
		Department/Program		Biology
		Subject Prefix		Biology
		Credits		4
		Pre/Co-requisites		BCOR 101, BCOR 102, BCOR 103

COURSE	TITLE	FORM FIELD	CURRENT COURSE INFORMATION	NEW COURSE INFORMATION
		Description		A course-based research experience that explores physiological and evolutionary responses to environmental change. Students engage in multiple stages of the scientific process, including laboratory experimentation, data analysis, reading of the scientific literature, and scientific writing.
		Course Seeking Graduate Credit?		No
		Course - Academic Merit		This course adds to the growing list of course-based undergraduate research experience (CURE) courses in Biology. It provides a unique synthesis of content and engages students in activities and assignments that span the scientific process. The course material synthesizes across many fields of biology, including biochemistry, molecular biology, cell biology, developmental biology, genetics, and evolutionary biology. Students engage in laboratory experiments in pursuit of a novel scientific question, learn to analyze their own data with appropriate statistics in the R statistical programming language, and write their own scientific paper through a process of drafting and revision. In addition, students read and discuss scientific papers to provide context for the broader relevance of their work.
		Effects on Other Departments		none
BME 011	Core 1: Biomechanics & Sensing	Enforce Prerequisites	No courses listed as pre-requisites	Yes
		Catalog Prerequisites		C- or better in MATH 022, PHYS 031.
		Change Justification		The course applies physical principles of forces, moments and motion applied to biomedical applications (hence, pre-req PHYS 031), and the course uses calculus calculations in solving equations (hence, pre-req MATH 022).
BME 012	Core 2: Materials & Transport	Catalog Prerequisites	BME 011.	BME 011, BHSC 034.
		Change Justification		Request by BHSC to include class as pre-req
BME 013	BME Design 1	Catalog Prerequisites	BME 001 or equivalent.	BME 001 or BME 010 or equivalent.
		Change Justification		BME 001 has been replaced by BME 010
CDAE 118	Communication Design II	Terminated		
		College/School		College of Agriculture and Life Sciences
		Department/Program		Cmty Dev & Apld Econ
		Subject Prefix		Community Development & Applied Economics
		Credits		3
		Catalog Prerequisites		CDAE 018.
		Description		Explores visual communication through advanced projects in design research, planning, iteration, technical experimentation, and production for multi-modal design applications.
		Eligible for Graduate Credit?		No
		Course Seeking Graduate Credit?		No
		Delete Justification		This course is a duplicate of CDAE 116 and was somehow approved in error. We are hoping to deactivate it to alleviate the duplication.
CDAE 351	Research & Evaluation Methods			
		Change Justification	As directed by the Provost's office, any course(s) that is(are) cross-listed must have the same course titles and descriptions. As such, we are aligning the course title and description for CDAE 351 and PA 303.	Per Gail Starks' request of 24 February 2021, we are looking to permanently cross-list these courses at the Catalogue level.
		Cross Listed		Research & Evaluation Methods (PA 303)
CHEM 227	Topics in Analytical Chemistry			
		Brief Description of the Proposed Graduate Action	Prerequisite removed as part of deactivation process.	We would like to re-activate Chem 227. This course was approved by all parties in AY 2018-2019.
		Course Status	Inactive	Active
		Does this course include a General Education action?		No
		Catalog Prerequisites		Chem 221

COURSE	TITLE	FORM FIELD	CURRENT COURSE INFORMATION	NEW COURSE INFORMATION
		Change Justification		We modified this course in AY 2018-2019, and it was approved all the way up through the registrar. The intention was and is to use this course number. However, before it could be offered, it was deactivated in December 2019 by the registrar. We would like to reactivate Chem 227 so that it can be used in AY 2021-2022
CHEM 275	Computational Chemistry	Added		
		College/School		College of Arts and Sciences
		Department/Program		Chemistry
		Subject Prefix		Chemistry
		Credits		3
		Catalog Prerequisites		Chem 260.
		Description		Explores the techniques and applications of computational chemistry to model organic, inorganic, and biological molecules. Introduces basic level of classical and quantum modeling, cheminformatics and big chemical data, as well as computer-aided design of new materials and medicines.
		Course Seeking Graduate Credit?		Yes
		Course - Academic Merit		Computation has become as important as Experiment and Theory in scientific research. Modern computational chemistry has provided unprecedented power to chemists to design molecules and materials even before synthesis and characterization. It is an essential course for a modern chemistry curriculum (for both undergrad and graduate education). Efforts toward a full development of this course have generated two publications.
		Effects on Other Departments		None
EDEL 285	Internship: Student Teaching	Short Title	Student Teaching Internship	Internship: Student Teaching
		Catalog Prerequisites	Pre 4th yr Elementary Education (Grades K-6) major; admit to Student Teaching; overall GPA requirement and professional course GPA requirement (EDEL/EDSP/EDTE/EDML) of 3 point 0.	4th yr Elementary Education (Grades K-6) major; admit to Student Teaching; overall GPA requirement and professional course GPA requirement (EDEL/EDSP/EDTE/EDML) of 3 point 0, EDEL 287.
		Description	Culminating Full-Time Student Teaching Internship in field placement with a mentor endorsed in Elementary Education; 4.5 days per week for full semester, gradually assuming more responsibilities with a two-week solo teaching experience.	Supervised student teaching internship in approved K-6 field site with an endorsed Elementary Education mentor. Semester long immersion culminating in a two week solo experience.
		Change Justification		The Department of Education in CESS is renaming courses to ensure consistency among all student teaching courses in our licensure programs. Course description changes are consistent with accreditation language and reflect name change.
EE 120	Electronics I	Catalog Prerequisites	EE 004 or EE 021.	PHYS 125; EE 004 or EE 021.
		Change Justification	EE 004 being replaced by EE 021.	PHYS 125 added due to lack of co-requisite enforcement. Students need this prior to taking the course.
EE 183	Electronics Laboratory	Pre/Co-requisites		EE 120.
		Change Justification		Interpretation of co-req was incorrect. Students can take EE 183 AFTER EE 120.
FOR 122	Forest Ecosystem Analysis	Description	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.	An integrated field course that focuses on acquiring skills to investigate, through quantification and interpretation, the flora, fauna, and abiotic components (soils, physiography, water, and microclimate) of forest ecosystems. Also covers consulting forestry, timber markets, industrial and family forestry, forest roads, timber inventory, and visits wood processing facilities.
		Catalog Prerequisites	FOR 121, NR 140.	NR 140.
		Change Justification		FOR 121 has been removed as a prerequisite because it is no longer offered. As such, the course has evolved and this description is more accurate and complete in its current form.
FS 381	Issues & Solutions Seminar	Added		
		College/School		Cross-College
		Department/Program		Dean-Graduate Coll
		Subject Prefix		Food Systems
		Credits		1

COURSE	TITLE	FORM FIELD	CURRENT COURSE INFORMATION	NEW COURSE INFORMATION
		Description		Focuses on transdisciplinary research intended to address the "wicked problems" of contemporary food systems through weekly presentations of on-going research by University of Vermont faculty and doctoral students.
		Course Seeking Graduate Credit?		Yes
		Course - Academic Merit		This course looks at transdisciplinary research in relation to food systems research happening among current faculty and doctoral students at UVM. Students will learn about transdisciplinary frameworks for research food systems, and learn how to articulate a transdisciplinary food systems research project. As a cross-college program, a core component of Food Systems is its transdisciplinary nature, and this course helps to highlight that.
		Effects on Other Departments		None
LING 174	Language & Gender	Course Status	Active	Inactive
		Reason for Deactivation		The content (plus more) is covered in LING 175.
MMG 104	Intro Recombinant DNA Tech	Credits	3	4
		Enforce Prerequisites	No courses listed as pre-requisites	Yes
		Pre/Co-requisites	BCOR 011/ BCOR 012; Microbiology & Molecular Genetics major or minor restriction.	BCOR 011 or BCOR 021; Microbiology & Molecular Genetics major or minor.
		Description	Introduction to the basic principles and techniques used in recombinant DNA technology. Spring.	Designed to present the science of molecular genetics combined with the laboratory practices of recombinant DNA technology (genetic engineering), gene editing, and bioinformatics.
		Change Justification	I am requesting a reclassification of MMG 104 from a LAB course to a LCLB course with the requisite 3 credit hours. This course meets for 380 minutes a week with an average of 2.45 hours of didactic lecture and 3.88 hours of hands-on laboratory work. The students are also assigned work outside of the classroom including a research presentation on topics outside of the course materials covered in class. I have attached a list of courses with varied designations for your review. Although this course is currently listed a LAB course, in order to effectively teach Recombinant DNA Technology a large amount of material is covered outside of the limited hands-on laboratory experience. I would be happy to elaborate further if necessary.	We propose to change MMG104 from a 3-credit laboratory course to a 4-credit lecture/lab course. We have redesigned the laboratory content to incorporate a course-based undergraduate research experience (CURE) implementing the Yeast ORFan Gene Project ( <a href="https://www.yeastorfanproject.com/">https://www.yeastorfanproject.com/</a> ) as a basis for students to develop research questions and investigate them using student-designed laboratory methods. The addition of a lecture component will allow time for teaching the fundamentals of molecular genetics and recombinant DNA technology. The course is designed to prepare students for upper-level molecular biology and genetics courses as well as for undergraduate research.
		Catalog Prerequisites		BCOR 011 or BCOR 021.
MUE 121	University Concert Band	Credits	2	1-2
		Description	Large woodwind, brass, and percussion ensemble. Repertoire chosen from the standard literature as well as contemporary music, with emphasis on the art of ensemble playing. Open to students from all majors and colleges. Audition for placement.	Large woodwind, brass, and percussion ensemble. Repertoire chosen from the standard literature as well as contemporary music, with emphasis on the art of ensemble playing. Open to students from all majors and colleges. Audition for placement. With Instructor permission, students with a different participation level may register for one credit.
		Change Justification		We have made the credits variable (1-2) with 2 credits as the default. Every semester there are a few students who because of their class, lab, work study, employment or other commitments cannot participate at the same level as other students (missed rehearsals, less time to prepare, etc.). The directors still try to accommodate them when appropriate. We have added to the course description "With instructor permission, students with a different participation level may register for one credit." We expect these exceptions will be rare but will help students receive the proper credit for their work.
MUE 122	University Concert Choir	Credits	2	1-2
		Description	Mixed SATB choir. Performing choral masterworks from the baroque period to the present. Open to students from all majors and colleges. Audition for placement.	Mixed SATB choir. Performing choral masterworks from the baroque period to the present. Open to students from all majors and colleges. Audition for placement. With Instructor permission, students with a different participation level may register for one credit.

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		Change Justification		We have made the credits variable (1-2) with 2 credits as the default. Every semester there are a few students who because of their class, lab, work study, employment or other commitments cannot participate at the same level as other students (missed rehearsals, less time to prepare, etc.). The directors still try to accommodate them when appropriate. We have added to the course description "With instructor permission, students with a different participation level may register for one credit." We expect these exceptions will be rare but will help students receive the proper credit for their work.
MUE 123	University Symphony Orchestra	Credits		2 1-2
		Description	Full orchestra comprising strings, woodwinds, brass, and percussion. Several performances each year. Open to students from all majors and colleges. Audition for placement.	Full orchestra comprising strings, woodwinds, brass, and percussion. Several performances each year. Open to students from all majors and colleges. Audition for placement. With instructor permission, students with a different participation level may register for one credit.
		Change Justification		We have made the credits variable (1-2) with 2 credits as the default. Every semester there are a few students who because of their class, lab, work study, employment or other commitments cannot participate at the same level as other students (missed rehearsals, less time to prepare, etc.). The directors still try to accommodate them when appropriate. We have added to the course description "With instructor permission, students with a different participation level may register for one credit." We expect these exceptions will be rare but will help students receive the proper credit for their work.
MUE 124	University Jazz Ensemble	Credits		2 1-2
		Description	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. Open to students from all majors and colleges. Enrollment confirmed by audition.	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. Open to students from all majors and colleges. Enrollment confirmed by audition. With instructor permission, students with a different participation level may register for one credit.
		Change Justification		We have made the credits variable (1-2) with 2 credits as the default. Every semester there are a few students who because of their class, lab, work study, employment or other commitments cannot participate at the same level as other students (missed rehearsals, less time to prepare, etc.). The directors still try to accommodate them when appropriate. We have added to the course description "With instructor permission, students with a different participation level may register for one credit." We expect these exceptions will be rare but will help students receive the proper credit for their work.
NSCI 111	Exploring Neuroscience	Catalog Prerequisites	PSYS 001; CHEM 023 or CHEM 031; and one of the following: (BIOL 001 and BIOL 002) or (BCOR 011 and BCOR 012) or BCOR 021 or (ANPS 019 and ANPS 020).	PSYS 001; and one of the following: (BIOL 001 and BIOL 002) or (BCOR 011 and BCOR 012) or BCOR 021 or (ANPS 019 and ANPS 020).
		Change Justification		Several students choose to delay Chemistry to the second year. With this co-requisite change, these students will be able to take NSCI 111 with their cohort in the second year. This course is an important pre-requisite course for many upper-level Neuroscience courses.
		Pre/Co-requisites	Adds the accelerated BCOR 021 to the list of intro biology options.	CHEM 023 or CHEM 031.
		Pre/Co-requisite Change Notes		The Neuroscience Program Director, steering committee, and course instructors have been consulted. The proposed change will not alter the Chemistry sequence that is required.
PA 303	Research & Evaluation Methods	Effective Date		Fall 2021
		Enforce Prerequisites		No
		Certify Definition of a Credit Hour		Yes

COURSE	TITLE	FORM FIELD	CURRENT COURSE INFORMATION	NEW COURSE INFORMATION
		Does this course include a General Education action?		No
		Catalog Prerequisites		Three hours of statistics.
		Cross Listed		Research & Evaluation Methods
		Change Justification		Per Gail Starks' request of 24 February 2021, we are looking to permanently cross-list these courses at the Catalogue level. (CDE 351)
PRT 010	Intr Sustainable Rec & Tourism			
		What type of gened action		Seeking new General Education designation(s)
		DiveCheck all General Education requirements that apply to this action		Sustainability
		Gened Action		We seek SU designation for this course.
		Companion Documents		2021 SU Designation Appl Form PRT 10.docx
		Change Justification		We are seeking Sustainability Designation for this course.
PSYS 386	Full Clinic Practicum Seq Seri	Added		
		College/School		College of Arts and Sciences
		Department/Program		Psychological Science
		Subject Prefix		Psychological Science
		Credits		1
		Catalog Prerequisites		Psychology graduate standing.
		Description		All clinical students from the first through the fifth year attend monthly full clinic trainings and case presentations. Trainings include a clinic orientation, safety training, and special topics. Each vertical team has the opportunity to provide a case presentation outlining theoretical framework, case conceptualization, treatment techniques, progress, and challenges.
		Course Seeking Graduate Credit?		Yes
		Course - Academic Merit		Currently, we have one section of our Advanced Clinical Practicum (PSYS 385) devoted to this full clinic practicum. We need to split off this section from PSYS 385 to reduce confusion. The rest of the sections of PSYS 385 are 1 credit and involve supervision by an individual clinician. NOTE (1/21/21): We had originally submitted this new course at 0 credits but after consulting with Graduate College Dean Forehand, we are now proposing it at 1 credit.
		Effects on Other Departments		None.
PSYS 387	Supervision & Consultation Sem	Added		
		College/School		College of Arts and Sciences
		Department/Program		Psychological Science
		Subject Prefix		Psychological Science
		Credits		1
		Catalog Prerequisites		Psychology graduate standing.
		Description		An overview of theory and research associated with clinical supervision and consultation for health service psychology. A meta-supervision model is implemented for the supervision of junior colleagues with an emphasis on multicultural issues. Exploration of consultation in numerous settings including hospitals, schools, community-based organizations, and industry.
		Course Seeking Graduate Credit?		Yes
		Course - Academic Merit		We need this experience to be on the transcripts of our clinical psychology PhD students so that they will be eligible for licensure when they complete our program. NOTE (1/21/21): We had originally submitted this new course at 0 credits but after consulting with Graduate College Dean Forehand, we are now proposing it at 1 credit.
		Effects on Other Departments		None.
SWSS 099	Internship		1-3	2-3
		Effective Date		Fall 2022
		Enforce Prerequisites		No courses listed as pre-requisites
		Certify Definition of a Credit Hour		Yes
		Does this course include a General Education action?		No

COURSE	TITLE	FORM FIELD	CURRENT COURSE INFORMATION	NEW COURSE INFORMATION
		Change Justification		<p>The Field Education Coordinator in the Department of Social Work considered the credit hours of 1 - 3 and determined that a 1 credit internship would not be pedagogically sound. The learning would need to include not only "hours in the field" but also time for assignments, critical reflection, and presentations. To design a course for 1 credit would not allow for the in depth inclusion of all of these requirements.</p>