Bulletin of the UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE BURLINGTON, VERMONT

APRIL 1952

Correspondence

ADMISSIONS: For all matters pertaining to the admission of undergraduate students, including requisitions for the catalogue, and information concerning rooms, tuition and scholarships. Director of Admissions Adult Education Director of Adult Education College of Medicine Dean, College of Medicine Graduate Division Director of Graduate Study Summer Session Director of the Summer Session TRANSCRIPTS OF RECORDS Office of the Registrar EMPLOYMENT OF SENIORS AND ALUMNI. Director of Placement MATTERS OF ALUMNI INTEREST Alumni Secretary MATTERS OF GENERAL UNIVERSITY INTEREST... The President [For Table of Contents see last page.]

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BULLETIN of the UNIVERSITY OF VERMONT and STATE AGRICULTURAL COLLEGE



THE CATALOGUE - 1951-1952 ANNOUNCEMENTS - 1952-1953

U V M *

¶ The University is located at Burlington, Vermont, overlooking an attractive tree-shaded city situated on the shores of Lake Champlain.

J Burlington, the largest city in the state with a population of 33,000, is 100 miles from Montreal, 240 miles from Boston, and 300 miles from New York City. The city enjoys fast daily plane service to these urban points in addition to regular railroad and bus service.

¶ Chartered in 1791, the University is the eighteenth oldest institution of higher learning in the United States and the first institution founded by state legislative action to offer instruction at the university level.

J Within the seven divisions of the University, instruction is offered in fifty-four different curricula, of which thirty-nine are professional and fifteen non-professional.

¶ The University is fully accredited and holds membership in the following accrediting associations and learned societies:

The Association of American Universities The New England Association of Colleges and Secondary Schools The Association of American Colleges The American Association of Colleges for Teacher Education The American Medical Association The Engineers Council for Professional Development

The American Chemical Society

¶ Currently enrolled are 3,023 students, of whom 1,466 are residents of Vermont; the remainder represent 28 states and 21 foreign countries.

★ UVM, the popular method of referring to the University, is derived from the Latin — Universitas Viridis Montis.

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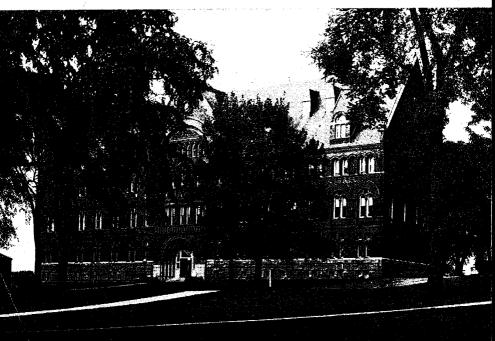


THE IRA ALLEN CHAPEL AND BILLINGS LIBRARY



THE WATERMAN MEMORIAL BUILDING

WILLIAMS SCIENCE HALL



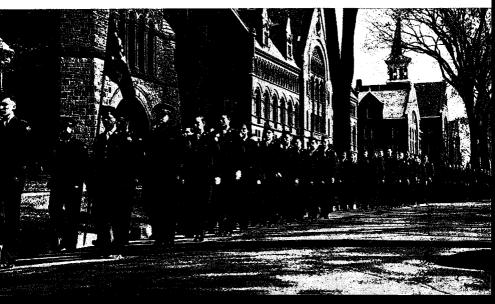


THE IRA ALLEN ORATION



THE FRESHMAN PICNIC ON REDSTONE CAMPUS

HEADING FOR FEDERAL INSPECTION



UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE

Educational Opportunities

The University of Vermont and State Agricultural College aims to provide for qualified young men and women the opportunity to acquire an understanding and appreciation of the main fields of human knowledge, to develop those qualities of mind and character which will enable them to assume responsible leadership among their fellow men, and to lay the foundations for successful careers. In the process of achieving these aims, the University believes that a student will grow in self-mastery and personal depth, will learn to reason logically, and will develop open-mindedness and tolerance toward the opinion of others.

The instructional activities of the University are organized under five colleges—Agriculture, Arts and Sciences, Education and Nursing, Medicine, and Technology; the School of Dental Hygiene; and the Graduate Council. Within these seven instructional divisions, students may select from a wide variety of curricula.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences provides a general liberal four-year curriculum leading to the degree of Bachelor of Arts, with opportunity for concentration in one or more of the following departments: Botany, Chemistry, Economics, English, Geology, German, Greek, History, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Romance Languages (French and Spanish), Speech, and Zoology.

All pre-professional requirements for admission to colleges of medicine, dentistry, law, and theology may be met in the College of Arts and Sciences by a proper selection of electives. Those who have completed three years of pre-medical study at the University may qualify, on application, for the degree of Bachelor of Science after successfully completing one year of study in an approved college of medicine.

Educational Opportunities

THE COLLEGE OF TECHNOLOGY

The College of Technology offers four-year curricula leading to the degree of Bachelor of Science in Civil Engineering, Electrical Engineering, Management Engineering, Mechanical Engineering, Chemistry, Commerce and Economics (Business Administration), and Medical Technology.

Options in Commerce and Economics during the junior and senior years include Accounting, Banking, Finance and Insurance, Business Administration, Hotel and Resort Management, Industrial Management, Marketing and Merchandising, Personnel Management, and Secretarial Studies.

THE COLLEGE OF AGRICULTURE

The College of Agriculture offers a four-year curriculum leading to the degree of Bachelor of Science in Agriculture, which includes both general and specialized training. The fields of specialization are Agricultural Economics, Agricultural Education, Agronomy, Botany, Dairy Manufacturing, Dairy Production, Horticulture, and Poultry Husbandry. There is also offered in co-operation with the College of Technology a four-year curriculum in Agricultural Engineering which leads to the degree of Bachelor of Science in Agricultural Engineering. A two-year program of courses is offered to prepare students for admission to professional training in veterinary science and forestry at other institutions.

The College of Agriculture also offers a four-year curriculum leading to the degree of Bachelor of Science in Home Economics, with specialization in one of the following fields: Food and Nutrition; Clothing, Textiles, and Related Arts; Home Economics Education; and General Home Economics.

THE COLLEGE OF EDUCATION AND NURSING

The College of Education and Nursing offers four-year curricula leading to the following degrees: in Elementary, Junior High, Secondary, and Industrial Education, the degree of Bachelor of Science in Education; in Business Education, the degree of Bachelor of Science in Business Education; and in Music Education, the degree of Bachelor of Science in Music Education.

This College also offers a four and one-half year curriculum leading to the degree of Bachelor of Science in Nursing, and a three-year curriculum for graduate nurses leading to the degree of Bachelor of Science in Nursing Education.

History

THE SCHOOL OF DENTAL HYGIENE

The School of Dental Hygiene offers a two-year curriculum leading to a Certificate in Dental Hygiene. Recipients of this certificate are eligible to take various State Board Examinations for licensing as Dental Hygienists. Enrollment is limited to women.

THE COLLEGE OF MEDICINE

The College of Medicine offers a four-year curriculum leading to the degree of Doctor of Medicine and also offers graduate courses in specialty fields.

GRADUATE STUDY

Under the supervision of the Graduate Council, instruction is given leading to one or another of several advanced degrees. The student may elect to work for his appropriate degree in many departments of the University.

The History

The University owes its founding to Ira Allen, who gave four thousand pounds to help establish a university in Burlington. He had aided more than any other one man in forming the State and in preserving its integrity through the troubled years preceding its admission to the Union. In 1791 the first General Assembly of the new State granted the charter for the University. Instruction was begun by the first president, Daniel C. Sanders, in 1800 and four years later the first class was graduated. In 1872 women were first admitted.

The Hon. Justin S. Morrill, Representative and later Senator from Vermont, sponsored the Morrill Land Grant Act of 1862, which provided for colleges to teach liberal and scientific courses, including Agriculture and the Mechanic Arts. Under this act the Legislature chartered the Vermont Agricultural College in 1864. A year later the two corporations were joined by legislative act in a new corporation, the University of Vermont and State Agricultural College. Later the Experiment Station and Extension Service were established by the Legislature. Courses in Civil Engineering were first given in 1829. Four-year curicula in Civil, Electrical, Mechanical, and Management Engineering have followed.

The study of Medicine began with the appointment in 1804 of a lecturer in Chirurgery and Anatomy, and a full course of Medical Lectures

The Campus

was offered in 1822 by the cooperation of an association of doctors and the University. From this developed the Medical College. Since 1920, women have been admitted to this college.

Since 1944, the University has offered pre-clinical classroom instruction for the nursing students of most Vermont hospitals.

In 1946, the University was re-organized into its present divisions. Some of the most recently added curricula include Nursing, Business Administration, Agricultural Engineering, Industrial Education, and Business Education.

In the summer of 1948, the University sponsored its first foreign study program. Under this program, known as *The Marshal Plan in Action Course*, a group of 300 students and seven faculty members from many American colleges and universities traveled through Western Europe to study the European Recovery Program at first hand. The School of Dental Hygiene enrolled its first students in the fall of 1949. In the summer of 1950 the University sponsored its first Securities Markets Course in the New York financial district.

The Campus

The grounds of the University at present include the main campus of about seventy-five acres on which most of the academic and administrative buildings are located around a large, tree-shaded "College Green." That section of the main campus which lies between The Green and Converse Hall has been developed recently by the erection of several buildings and is now known as the East Campus.

Three blocks south of The Green is Redstone Campus, a beautiful residential area for women students which commands an unparalleled view of Mt. Mansfield and Camel's Hump.

Centennial Athletic Field, an eleven-acre tract a short distance east of the main campus, provides excellent facilities for intercollegiate athletic contests. The seating capacity of the football stadium is approximately 5,000 and of the baseball stadium, approximately 3,000.

The University Farm of 300 acres and the Hoag Farm of 150 acres adjoin the campus and are equipped for teaching and research. There is also a research forest of 350 acres located in Jericho, another of 200 acres on Pease Mountain in Charlotte, the Proctor Maple Research Farm of 180 acres in Underhill, and the Morgan Horse Farm of 950 acres at Weybridge recently obtained from the United States Government.

The physical plant of the University is valued in excess of \$5,600,000.

University Buildings

The following buildings are located on or near the College Green:

IRA ALLEN CHAPEL: This fine example of Georgian architecture, which was erected on the northeast corner of The Green in 1927, is the gift of James B. Wilbur of Manchester, Vermont, and is named for the founder of the University. The Chapel contains an excellent three-manual organ and has a seating capacity of twelve hundred.

BILLINGS LIBRARY: Located next to the Chapel on College Row, Billings Library is an excellent example of Richardson architecture. It is the gift of Frederick Billings of Woodstock and was erected in 1885.

WILLIAMS SCIENCE HALL: Completed in 1896, this building was one of the first completely fireproof buildings in the country. It was given to the University by the late Dr. Edward H. Williams of Philadelphia. Facilities for the Departments of Chemistry, Physics, and Zoology are housed here, in addition to the Pringle Herbarium, one of the largest collections of its kind in America.

OLD COLLEGE BUILDING: "The Old Mill," as it is popularly known, is the oldest building on the campus and stands on the site of the first college edifice which was erected in 1801. The cornerstone of this structure was laid by General Lafayette. The three parts of this building are sometimes called, respectively, "North College," "Middle College," and "South College." Classrooms and offices for the Department of Economics and the Department of Political Science are located in North College.

GYMNASIUM: The gymnasium and cage provide facilities for the men's athletic activities and also for the Department of Military Science and Tactics. The gymnasium is also used for large dances, social gatherings, and final examinations.

MORRILL HALL: This building was erected by the State in honor of Justin Smith Morrill, for many years a representative and senator from Vermont. As the author of the "Morrill Act," which became law with President Lincoln's signature in 1862, he became the father of the landgrant colleges and universities of the United States. This building, erected in 1906, provides classroom space and offices for the College of Agriculture.

GRASSMOUNT: This fine old colonial mansion with spacious rooms was formerly the home of Governor Cornelius P. Van Ness. Many famous people have been entertained here including General Lafayette, whose statue adorns the campus. For many years, Grassmount has been a dormitory for women.

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WASSON MEMORIAL INFIRMARY: In October, 1945, in the Wheeler House adjoining the main campus, the Wasson Memorial Infirmary with a complete staff and equipment was opened. There are facilities for examining entering students, general health service, and infirmary care for such illnesses as do not require hospital service.

WATERMAN MEMORIAL: Planned as a University Center, the Charles Winfield and Anna R. Waterman Memorial was built from the large estate given to the University by the Honorable Charles W. Waterman of Denver, Colorado. It was completed in 1941. On the main floor are found most of the University's administrative offices. On the floor below are located the University Store, the Cafeteria, and the Student Lounge. In the basement are bowling alleys, and Electrical and Mechanical Engineering Laboratories. The second and third floors are devoted to classrooms, laboratories, offices, and study halls.

MEDICAL BUILDING: The College of Medicine is housed in a modern threestory structure located on the north side of the College Green. It contains laboratories, large lecture halls, recitation rooms, and administrative offices in addition to the pathological and anatomical museums. The Medical Library, a division of the University Libraries, is on the second floor. Adjacent to the campus are the Mary Fletcher Hospital, the Bishop DeGoesbriand Hospital, and the State Department of Public Health Building; the facilities of all these are utilized by the College of Medicine. MUSIC BUILDING: The Department of Music carries on most of its instruction in this remodeled residence just off the main campus. In addition to

tion in this remodeled residence just off the main campus. In addition to classrooms, listening rooms, and practice rooms, this building houses the Carnegie College Music Collection.

The following buildings are located on or near the East Campus.

FLEMING MUSEUM: The Robert Hull Fleming Museum was given by James B. Wilbur, Miss Katherine Wolcott (a niece of Mr. Fleming) and six other friends of the University. The exhibition rooms contain collections in geology, mineralogy, paleontology, zoology, and archaeology. The art collections include examples of all types of artistic creation from the ancient period to the modern.

The seismograph station is located in an underground vault connected with the Museum. Observations are sent regularly to the Coast and Geodetic Survey at Washington.

ENGINEERING BUILDING: Erected in 1891, the Engineering Building houses classrooms for mathematics and laboratories for civil and mechanical engineering. Recently the machine shop has been remodeled and \$100,000 worth of machine tools have been added.

University Buildings

ART CENTER: Just back of the Ira Allen Chapel is the center for art instruction. Classes in arts and crafts and in painting are held here. The private studio of the resident artist is also located in this building.

EAST HALL: Originally a naval hospital, this building was obtained from the Federal Government in 1947, moved to the East Campus in sections, and reconstructed. It contains ten large classrooms, a geology laboratory, a civil engineering laboratory, and private offices for the English Department.

HILLS AGRICULTURAL SCIENCE BUILDING: On October 16, 1948, Dean Joseph Lawrence Hills, at the age of 87, turned the first shovel of earth for a new building named in his honor. Completed in 1950, it contains facilities for several departments in the College of Agriculture.

DAIRY SCIENCE BUILDING: The new Dairy Science Building, dedicated in October, 1949, houses the equipment, laboratories, and facilities for all aspects of dairy manufacturing, processing, and merchandising. A dairy sales room is included. The building also houses the staff for research, extension, teaching, and related services in the field of dairying.

AGRICULTURAL ENGINEERING BUILDING: This well-equipped building houses the instructional and research activities of the Agricultural Engineering Department.

UNIVERSITY FARM BUILDINGS: Two sets of farm buildings, with storage for feed, machinery, and tools, furnish laboratory facilities for teaching and research. The new poultry plant includes one building for brooding and one for laying birds. Both are used for teaching and research.

BERTHA M. TERRILL HOME ECONOMICS BUILDING: Built with funds appropriated by the 1949 legislature and occupied for the first time in 1951, Terrill Hall provides the most modern facilities for the teaching, research, and extension activities of the Department of Home Economics.

The following buildings are located on the Redstone Campus:

SOUTHWICK MEMORIAL: The Mabel Louise Southwick Memorial is the center of women's activities. A modern gymnasium and theatre, an attractive ballroom, and several sizable lounges provide facilities for many varied functions. This building, given by Mr. and Mrs. J. L. Southwick in memory of their daughter, was erected in 1936.

GRACE GOODHUE COOLIDGE HALL: This newest dormitory for women is a modern, fireproof unit, housing one hundred and forty-five first and second-year students. It adjoins the Southwick Memorial Building with which it is connected by a corridor. It is named in honor of Grace Goodhue Coolidge of the Class of 1898.

The University Libraries

The University Libraries, the largest collection in Vermont, contain more than two hundred thousand books and pamphlets, and a large collection of manuscripts. Organized to serve faculty, student, and extension needs, the Libraries are increased by several thousand volumes a year and by magazines, a large number of which are published abroad. The U. S. Government uses the Library as a depository for its publications, books, pamphlets, and maps.

A staff of eighteen trained members maintains library service for the University and the community daily from 8:00 a.m. to 10:00 p.m. and on Sundays from 2 until 6 p.m.

The University Libraries are housed in various buildings on the campus:

Billings Library contains the working collection of recent or up-to-date volumes, newspapers, magazines, and scholarly journals. The building, the gift of the late Frederick Billings of Woodstock, was designed by H. H. Richardson and erected in 1885. In it is the private library of the late George Perkins Marsh, former resident of Burlington, and onetime U. S. Ambassador to Turkey and to Italy. This is a gentleman's library of the 19th century, rich in philology and European literature.

The Wilbur Library, given by the late James B. Wilbur of Manchester, contains the most extensive collection of Vermont material in existence. The Library is in a well-furnished room in the Fleming Museum, and is supported from an endowment fund.

The Medical Library, in the College of Medicine Building, contains the books and magazines used in an active Medical school.

The Williams Science Hall contains books on chemistry, physics and zoology.

The Waterman Building has shelves for about 75,000 government documents, and old or little used books.

In the winter of 1947 a society of "Library Fellows" was organized, composed of faculty, alumni, and friends of the University who by special contributions, aid the library in carrying on various phases of its work. The society, of more than 100 members, is open to all who are interested in books, knowledge, the advancement of learning, and the improvement of present library facilities.

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Living Accommodations

THE WOMEN'S RESIDENCES

All undergraduate women students are required to live on campus or in rooms approved by the University. Transfer students and freshmen are assigned to the several housing units according to quotas. Freshmen may be assigned to any of the dormitories except Grassmount, which is reserved for upper-classmen. The college-owned dormitories are Coolidge, Converse, East Hall, Grassmount, Lyman, Old Mill, Redstone, Roberts, Robinson and Slade. These halls accommodate from twenty-two to one hundred and forty-five women. Students furnish their own bed linen and towels, unless they prefer to arrange for weekly service on a yearly contract with the Gordon Linen Supply Company. They also supply blankets, rugs, window draperies, desk lamps and blotters, linen or plastic covers for chest or dresser, and easy chairs, if desired. Students in these halls obtain their meals at the Waterman Cafeteria or at the Robinson Dining Hall. Yearly meal contracts for Robinson Dining Hall are required for all freshmen and most sophomores who live on the Redstone Campus, unless other arrangements are approved for individual students by the Dean of Women.

Four cooperative houses are owned by the University (Adsit, Allen and Claggett Houses and Sanders Hall) where, for a selected group of seventyeight girls, expenses for board can be reduced by carefully planned, lowcost meals, prepared and served by the girls themselves under the supervision of the Head Resident. Participants in this plan apply on special forms and are selected on the basis of character, scholarship and relative need. This privilege is usually limited to a residence of two years. Collins House, Elmwood Hall and Warner House are privately owned dormitories supervised by the University. Excellent meals are served in these units on a two- or three-meal yearly contract.

Six sorority houses provide for one hundred and fifteen upperclass women. Two private homes, approved by the University, provide kitchenette facilities for seventeen girls who wish to economize by preparing their own meals. In these units the householder serves as Head Resident and the same regulations prevail as in the college dormitories.

In charge of each living unit is a qualified Head Resident who works closely with the Dean of Women and her staff to assure that the best type of living conditions is maintained. In the cooperative homes the Head Resident is assisted by an upperclass girl called the House Fellow and in all other houses by the House President appointed by the Women's Student Government Association.

Those who cannot be accommodated in the dormitories are assigned to

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Living Accommodations

rooms in private homes which are supervised by the University. Room rents, payable a semester in advance, are uniform in all housing units for women. A room deposit of \$15 is necessary to reserve a room. This amount is credited on the semester bills or forfeited if the applicant does not enroll.

No final choice of rooms may be made without the approval of the Dean of Women. Enrollment is not possible without such approval.

LIVING ACCOMMODATIONS FOR MEN

Chittenden, Buckham, and Wills Halls are three new modern dormitories for men which were constructed on the East Campus in 1947. Each houses 143 students, and all incoming freshman men who do not live locally with their families are assigned to these dormitories.

In the dormitories, a bed, mattress, chest of drawers, wardrobe, desk, and chair are provided for each occupant. Students must supply their own bed linen, blankets, coverlet, towels, desk lamp, rugs, and garment bags. Radios are permitted under certain conditions.

Thirteen fraternity houses representing eleven national fraternities and two local fraternities provide housing and in some cases dining facilities for approximately 300 upperclass men.

Most men students not boarding at fraternity houses or private homes obtain their meals in the Waterman Dining Hall where good food is served, cafeteria style, at reasonable prices.

HOUSING FOR MARRIED STUDENTS

The University maintains trailers near Centennial Field. Each trailer includes minimum furniture, an oil stove, ice refrigerator, and space heater. Toilet, laundry, shower facilities and water points are centrally located within the colony.

A limited number of furnished and unfurnished apartments are usually available for rent within the city limits of Burlington. Few are available for less than fifty dollars per month.

Personnel Services

HOUSING BUREAU

In Room 165, Waterman Building, the University maintains a Housing Bureau. Questions concerning accommodations for single men and married students should be directed to this office. A list of rooms in private homes is also available here. The University will do all it can to assist students in locating desirable accommodations within the city, but it does not guarantee to meet the specific needs of all. Questions concerning living accommodations for women students should be directed to the Office of the Dean of Women.

HEALTH SERVICES

The University has complete facilities to maintain the physical wellbeing of members of the student body. The institution provides a Student Health Service and Departments of Physical Education for Men and for Women.

The University Health Service, organized in 1941, has its headquarters at the Wasson Memorial Infirmary. The service includes complete physical examinations on all incoming students, the examination of members of athletic squads, care of injuries, advice on all health and medical problems. It is staffed by a Director of Infirmary Service, a Medical Director, a resident psychiatrist, and associate physicians who hold regular office hours in the Infirmary and are on call for emergencies. An orthopedic surgeon holds a regular clinic for consultation at the Infirmary. Registered nurses are on duty at all hours. A student may employ a private physician using the facilities of the Infirmary if desired. Cases of serious illness are sent to one of the two modern, well-equipped hospitals which are adjacent to the campus. Parents are notified of the student's illness by letter or telephone depending on the nature of the illness.

The Infirmary at present operates under the following regulations:

- 1. Every student who pays full tuition for the normal college year of nine months is entitled to a maximum of five days of free infirmary care and such routine medical care as is needed and as the Infirmary and Health Service can render during the nine months' period.
- 2. Students who require infirmary care for more than five days in the college year are charged therefor at the rate of \$5.00 per day.

Every student at the University is required to participate in the Physical Education program for two years. Normally this work is taken in the freshman and sophomore years, but may be postponed on the advice and

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Personnel Services

authorization of Medical Director, or the student's own physician, who must forward statements to the Medical Director concerning disability.

STUDENT PERSONNEL OFFICE

The Office of Student Personnel, 159 Waterman Building, provides the following services gratis for students and alumni.

COUNSELING: Confidential and objective help is available to students in the solution of personal, social, academic, and vocational problems which, if neglected, might hinder scholastic or professional success. Psychiatric counseling is available through the University Health Service. Aptitude, interest, and achievement tests are used in the counseling program. Carefully selected upper class students function as counselors in the men's dormitories under the supervision of the Director of Student Personnel.

STUDENT EMPLOYMENT: A Student Employment Service is maintained to assist any student enrolled in the University in securing either regular or occasional part-time work. The University employs a number of students in the college buildings, the dormitories, the cafeteria, and the academic departments. Opportunities are available in homes, industrial and business establishments in Burlington. Students are advised to seek employment only in instances of definite financial need and provided they have reason to believe they can carry successfully a normal college program at the same time. Wives of students are also assisted.

PLACEMENT: The University maintains a placement service for seniors and alumni. In his senior year each student may file his credentials with the Placement Service, which brings available positions to the attention of qualified candidates and also arranges for campus interviews with visiting personnel representatives from various industries, business organizations, and school systems. Confidential credential folders are prepared for each registrant. Booklets and pamphlets containing vocational information about the business and professional world and state and federal civil service are available. A Job Clinic is held annually providing an opportunity for first-hand discussion with experienced men and women concerning employment opportunities, professional requirements, and the technique of seeking a position.

VETERANS' EDUCATION: The Veterans' Education Service was established to cooperate with the Veterans Administration in enrolling and advising veterans with their educational problems. Requests for information concerning educational benefits should be addressed to the applicant's local or regional Veterans Administration Office. Requests for information concerning enrollment as a veteran at the University should be addressed to the Office of Student Personnel.

Student Life

The University officially recognizes the activities of a large number of organizations in caring for the social and recreational needs of students, developing their cultural and religious interests, providing them with valuable business and executive experience, and broadening their contact with the public, with their fellow students, and with the educational world. Because it is within this area that qualities of leadership are developed, the University encourages the widest possible participation consistent with its scholastic requirements.

Each student organization must have the approval of the University Council and remains subject to its jurisdiction. Although the University Council issues regulations to govern student activities, a good deal of authority has been delegated to student organizations.

A committee known as the Student Advisory Committee and composed of officers of instruction and administration is concerned with the system of student organizations and activities, with University policy relative to student organizations, and, in general, with the relationships between the University and these organizations. The Committee engages in studies relative to these matters and forwards recommendations to the University Council, the University Senate, the organization advisers, or the organizations, as appropriate.

RELIGIOUS LIFE

The University, although not affiliated with any denominational body, provides a rich program of religious activities. Formal courses of instruction are offered in the College of Arts and Sciences in the History of Religion and in the Old and New Testaments.

All religious activities on the campus are coordinated by a Committee on Religious Life, composed jointly of students and faculty members, representing different faiths. Headquarters are in the Waterman Building, which is the office of the Executive Secretary. The Committee sponsors the University's religious services, including a weekly chapel service and occasional services on Sundays; it also serves to coordinate the activities of the student associations devoted to religious and social service programs, such as the Student Christian Association, the Newman Club for Catholic students, the Hillel Foundation for Jewish students, and the several Protestant denominational groups. Inter-denominational and interfaith meetings are held, with speakers of national reputation as guests. The several churches in Burlington are delighted to welcome University students and cooperate with the Committee on Religious Life in sponsoring many student activities.

U.V.M. STUDENT GOVERNMENT

During the year 1949-1950, the students of the University adopted a constitution establishing the U.V.M. Student Association. This new constitution actually reorganized a system of student government which had existed for several years through an association called the U.V.M. Students. A constitutional revision committee of the student government council conducted a thorough study and prepared a draft which was revised in the course of discussions in open hearings, debate during the proceedings of a constitutional convention of the student body, and conversations with University authorities. It is an aim of the U.V.M. Student Association to work for a maximum of cooperation among students, faculty members, and administrative personnel in the conduct of all campus activities.

All students enrolled in the undergraduate colleges and schools of the University are members of this organization on payment of the Student Activity Fee. Members of the Student Association elect a president, a vice-president, a secretary, a sub-secretary, a treasurer, and a sub-treasurer, at large. The Student Association Council consists of the officers and councilmen. The latter are elected on the basis of class representation.

Although the regular business of the Student Association is conducted by the Council and its members, the Council may convoke the members of the association for the purpose of holding a referendum or conducting some other extraordinary business. Students may take the initiative in calling a mass meeting. The Student Association Council holds weekly meetings during the academic year.

A great deal of the work of the Student Association Council is performed by its standing committees: the Cultural, Election, Financial, Orientation, Pep, Religious Life, and Social committees. The Council elects one of its members to serve on each of these committees. Members of the Student Association, other than officers and councilmen, have an opportunity to participate in student government through membership on the committees.

The Student Court is the judicial agency of the U. V. M. Student Association and consists of representatives of each of the undergraduate colleges and schools. It has exclusive jurisdiction in all cases concerning the interpretation of the Constitution and By-Laws of the Association, it has original jurisdiction in cases involving violations of University regulations and violations of Student Association rules, and it has some appellate jurisdiction.

Student Life

WOMEN'S STUDENT GOVERNMENT ASSOCIATION

Every woman who enrolls as a student at the University, unless she is a resident of Burlington and living with her parents or guardian, automatically becomes a member of the Women's Student Government Association and is thereafter subject to its authority. This organization regulates those matters of student conduct which are not academic in nature.* By distributing responsibility and encouraging participation in its activities W. S. G. A. aims to develop individual leadership and to encourage selfdirection. A social conscience and high ideals of personal integrity are promoted through the Honor Code. Cooperation based upon a thorough understanding of the rules and regulations of the Association is expected of each student.

W. S. G. A. mass meetings are held at stated intervals. All women students are required to attend these mass meetings, as in no other way can they keep in touch with matters with which student government is concerned. The W. S. G. A. Council, which is the Executive Committee composed of W. S. G. A. officers, meets weekly. The Joint Conference Committee, composed of faculty members and students, meets twice each semester as an open forum for discussion of policies and regulations, and to advise the W. S. G. A. Council.

HONORARY SOCIETIES

The Boulder Society, a self-perpetuating group of senior men, is recognized as an organization responsible for student leadership. Election to this society is counted one of the highest honors that a University man may win. A feature of each Founder's Day is a meeting of this organization at which time the names of new members are announced.

Other honorary class societies for men that are active on the Campus are Key and Serpent, a junior society; Gold Key, a sophomore society; and Cap and Skull, the senior medical society.

Mortar Board, national senior honorary society for women, has an active chapter at the University. By such an affiliation women at Vermont are brought in closer contact with outstanding college women throughout the country while they still maintain their local significance of service to the Vermont campus. Though membership in Mortar Board comes as the greatest honor for a Vermont woman in recognition of outstanding service, scholarship, and leadership, it is far more than an honor. It is much rather a challenge for continued sound and honest scholarship, for unselfish service in the best interests of the college campus, and for the finest type of womanhood.

* For details, refer to W. S. G. A. Handbook.

Student Life

In 1938 two honorary class societies for women were organized. The junior society, Staff and Sandal, has twelve members, elected by the junior class from its outstanding leaders. The Sophomore Aides, fifteen in number, are elected annually by the sophomore class from those who in their freshman year gave evidence of the qualities of scholarship, leadership, and service. The members serve as assistants to Mortar Board.

The Phi Beta Kappa Society established the Vermont Alpha Chapter at the University in 1848. Election of seniors is made in December and at Commencement. The initiates are chosen primarily on the basis of high scholastic standing. The local chapter was the first in Phi Beta Kappa to initiate women into membership.

The Society of the Sigma Xi established the Vermont Chapter at the University in 1945. The initiates are chosen on the basis of proven ability to do research in one of the various sciences, and in the case of students high scholastic standing. Elections of faculty, graduate and undergraduate students are made in the second semester.

Other national honorary societies include Alpha Zeta, agriculture; Kappa Phi Kappa, education; Omicron Nu, home economics; and Tau Kappa Alpha, debating. Ethan Allen Rifles and the Arnold Air Society are honorary societies for outstanding students in the Reserve Officers Training Corps.

INTERCOLLEGIATE ATHLETICS AND OTHER SPORTS

The Physical Education activities for men are carried on in the University Gymnasium, the baseball cage, and on playing fields adjoining. The Physical Education activities for women are centered in the Southwick Memorial Building on the Redstone Campus and upon the playing fields nearby. A number of tennis courts are provided for the use of all students. Skiing privileges are available on the college campus and also on Mt. Mansfield.

A program of intercollegiate competition is maintained in football, skiing, baseball, basketball, track, cross-country, tennis, golf and rifle marksmanship. The athletic policies of the University are under the direction of the Athletic Council, composed of members of the faculty, the student body, and alumni. Athletic relations are maintained with colleges and universities in New England and the eastern seaboard in all the sports mentioned above. The athletic teams are under the direction of a corps of experienced coaches. The University is a member of the "Yankee Conference," which is composed of the land-grant colleges and universities in New England, of the National Collegiate Athletic Association, the New England Intercollegiate Athletic Association, and the Eastern Intercollegiate Athletic Association. The Varsity Club, composed of men who have earned their "V," works for the general development of athletics at the University.

A Sailing Club was organized in 1949, under the Men's Athletic Council, for those students interested in developing a program of competition. The Angler's Society expanded its scope of activities in 1950 and is now called the U.V.M. Rod and Gun Club.

The Women's Athletic Association sponsors a large number of activities for women students including archery, badminton, basketball, field hockey, folk dancing, life saving, modern dancing, ping-pong, skiing, skating, swimming, tennis, and volley ball. There is also an All Sports Club for women students.

Intercollegiate competition of women students is restricted to such activities as skiing. These activities are under the jurisdiction of a Women's Athletic Council.

In addition, the Outing Club sponsors for both men and women students mountain climbing expeditions, ski trips, and other outdoor activities.

FRATERNITIES AND SORORITIES

Approximately 800 men and 450 women are members of thirteen undergraduate fraternities and nine sororities on the campus. These groups provide additional social experience for their members in the form of dances, spreads, intramural athletics, interfraternity sings, social work, house operation and meal service, and chapter meetings. Fraternity activities are coordinated by an Interfraternity Council and sorority activities are coordinated by a Pan-Hellenic Association.

Active chapters on this campus include the following:

Fraternities

Acacia Alpha Tau Omega Delta Psi Kappa Sigma Lambda Iota Phi Delta Theta Phi Sigma Delta Sigma Alpha Epsilon Sigma Nu Sigma Phi Sigma Phi Epsilon Tau Epsilon Phi Theta Chi

Sororities

Alpha Epsilon Phi Alpha Chi Omega Alpha Delta Pi Delta Delta Delta Delta Phi Epsilon Gamma Phi Beta Kappa Alpha Theta Pi Beta Phi Sigma Gamma

Student Life

KAKE WALK

The outstanding social event of the year is the Kake Walk week-end in February. This unique celebration is UVM's gala occasion and many returning alumni attend annually. Festivities include a formal ball at which a king and queen are crowned, snow sculpture, and athletic events. For two nights, the fraternities compete with one another in original skits and in the art of *Walkin' fo' de Kake*. Prizes include cups and many beautifully decorated cakes. The events of the week-end are under the general supervision of the Interfraternity Council.

MUSICAL ACTIVITIES

Opportunities for participation and appreciation are provided for those students with strong musical interests. The University Choir, the University Orchestra, and the University Band appear in public presentations many times during the year. Vesper services, Christmas and Easter concerts, and a spring operetta are regular events. Many other concerts and recitals are sponsored by the Department of Music. The UVM Music Club and the Men's Chorus provide students with other opportunities for participation in musical activities. A series of concerts and other musical events are sponsored annually by community groups which bring outstanding artists to the city.

DRAMATICS, DEBATING AND RADIO

The Department of Speech sponsors many activities in the field of dramatics and debating. The University Players present several productions of high quality each year in addition to the Vermont Varieties, an annual show which includes members of the faculty, staff, and student body. Membership in the club is gained through participation in the productions and is open to all students.

The debate teams of the Lawrence Debate Club have made an enviable national record. Each fall the University is host approximately to sixty colleges which send two or more teams to participate in this annual tournament. During the year members of the club appear before service clubs and other groups throughout the State of Vermont.

Opportunities for those interested in the several aspects of radio broadcasting are available through the activities of the Radio Workshop.

STUDENT PUBLICATIONS

Those interested in journalism and editorial work find opportunity for expression in a number of student publications. The Vermont Cynic is the student newspaper which is published weekly or oftener. The Ariel is the annual yearbook which is published by the members of each class during their senior year. Each year, a student group known as the Scribes publishes two issues of *Windfall*, a literary magazine, and a committee from Student Council prepares the annual *Freshman Handbook* for incoming students.

CLASS ORGANIZATIONS

The members of each freshman class form a class organization which retains its identity throughout the undergraduate years of its members and extends through subsequent years as long as there are living alumni of the class. Members of each undergraduate class elect officers each spring, except that officers elected at the end of the junior year serve through the senior year and also to the end of the first reunion. During the junior year, each class sponsors the annual *Junior Week*, which includes the traditional *Peerade* of floats. Each senior class conducts the events in the traditional *Senior Week*.

OTHER STUDENT ORGANIZATIONS

Many other groups and activities, sponsored by departments and special groups, include the following:

Aggie Club Animal Industry Club American Society of Agricultural Engineers American Society of Civil Engineers American Institute of Electrical Engineers American Society of Mechanical Engineers Bertha Terrill Home Economics Club. Campus 4-H Club Der Deutsche Verien Flying Club Future Farmers of America Goodrich Classical Club Graduate Club

Home Economics Club International Relations Club John Dewey Club Le Cercle Français Marketing Club Nursing Club Osler Clinical Society Poultry Club Round Table Sheldon Club (Summer Session) Spanish Club Surgeons of the Long and Short Robes Trailer Colony VIPS Women's Health Council Young Republican Club

The Admission of Students

THE UNDERGRADUATE COLLEGES

The University of Vermont and State Agricultural College desires to admit students of high character and serious purpose who are qualified to do college work. It seeks as much information as possible about a student before his application is considered. A composite estimate of his capacity to profit by college work is formed from the following items.

- 1. The recommendation of the school principal
- 2. The candidate's rank in his graduating class
- 3. The school record of courses completed
- 4. Such tests as may be required by the Director of Admissions
- 5. A personal interview, if required by the Director of Admissions

Of these five items no one is considered as all important in itself. The important thing is the composite picture which results from the combined evidence from them all.

The information collected in connection with a student's application has another distinct value. It is used by the student's personal advisor in guiding the choice of a curriculum and of particular courses. Since education is a continuous process, the University hopes to receive all possible information from the high school for use in planning the college course best adapted to the individual.

Each college of the University desires that its students present a well integrated course of preparation, including certain subjects which it regards as especially desirable. These subjects are not absolutely required, but rather suggested to the high school student and advisor as suitable preparation for college work. Other qualifications being equal, preference is given to those who present the subjects which are deemed especially desirable.

Students will be admitted without any entrance conditions, except in subjects which are prerequisite to courses required in their respective curricula.

Application forms for admission to the University of Vermont and State Agricultural College will be sent upon request. Since the number of rooming accommodations available is limited, it is wise for a candidate for admission to submit his application and credentials as early as possible after the first of February in the year in which admission is sought. Action on applications will be taken in April and notification will be sent

The Admission of Students

to the students early in May. Inquiries should be addressed to the Director of Admissions, Waterman Building, University of Vermont and State Agricultural College, Burlington, Vermont.

COLLEGE OF ARTS AND SCIENCES

Graduation from secondary school normally implies the completion of at least sixteen credits, and this is regarded as the usual requirement for admission. The College of Arts and Sciences recommends that candidates complete the following courses: English (4 years), ancient or modern foreign language (2 years), elementary algebra, plane geometry, history, and science. Additional subjects should be chosen so far as possible in the fields of language, mathematics, and history. For those who intend to take pre-medical or pre-dental work or to concentrate in the sciences a second year of algebra is highly desirable.

COLLEGE OF TECHNOLOGY

The College of Technology recommends that candidates for admission to the curricula in Engineering complete the following secondary school courses: English (4 years), algebra (elementary and intermediate), plane geometry, solid geometry, history, and science. Superior students may be accepted without intermediate algebra or solid geometry, or both, but must enroll in a special course.

In addition to the eight or eight and a half units listed above the candidate is advised to choose the remaining units as far as possible in the fields of language, mathematics, history, and science.

Candidates for admission to the Economics and Chemistry Curricula should follow the recommendations for the College of Arts and Sciences above. For the Chemistry Curriculum, solid geometry is desirable.

COLLEGE OF AGRICULTURE

Courses considered especially desirable for prospective students in Agriculture are: English (4 years), elementary algebra, plane geometry, and science (2 years). History and a third year of mathematics are also desirable.

Courses considered especially desirable for prospective students in Home Economics are: English (4 years), foreign language (2 years of one language), elementary algebra, plane geometry, history, and science (2 years). A third year of mathematics is also desirable.

COLLEGE OF EDUCATION AND NURSING

The College of Education and Nursing recommends that candidates for admission complete the following courses in secondary school: English (4 years), ancient or modern foreign language (2 years), algebra (elementary), plane geometry, history, and science. Candidates should present additional subjects as far as possible in the fields of language, mathematics. and history. In certain curricula they may receive admission credit for commercial subjects, home economics. manual training. or agriculture, if they have maintained a sufficiently high scholastic record.

For admission to the curricula in Elementary Education and Junior High School Education see Index under "Admission, Elementary Education," or "Admission, Junior High School Education."

SCHOOL OF DENTAL HYGIENE

Enrollment in this School is limited to women who are high school graduates and are otherwise eligible to enter the freshman class of the University.

SPECIAL AND UNCLASSIFIED STUDENTS

Subject to the usual entrance requirements of the University, persons who are qualified for regular admission may, on payment of specified fees. pursue certain studies in regular college classes as special or unclassified students. This arrangement is intended to accommodate those whose previous study and attainments enable them to pursue with profit special courses of study in particular departments. Students who have been dismissed for low scholarship may not re-enter as special students.

Special students are those who are not candidates for a degree in one of the regular curricula, or who are carrying less than a normal academic load. Unclassified students are those who are not considered members of one of the four regular classes.

Such students are registered and enrolled in the same manner as regular students, and are subject to all regulations of the University. Credit for courses completed may be subsequently counted toward a degree. Special students are not eligible to hold University scholarships.

PRELIMINARY REGISTRATION PROGRAM

The days immediately preceding the opening of class work are devoted to certain preliminary events designed to facilitate the adjustment of freshmen to conditions of life and study at college. The full schedule of events is given in a special circular, *Program of Preliminary Days at* U. V. M., which is sent to all prospective freshmen by the Admissions Office one month before the opening of college.

The Admission of Students

All new students are given scholastic aptitude tests at the opening of the college year. Freshmen also take several placement tests on the basis of which some students are placed in more advanced courses. The scores on all tests are used in advising students regarding the course of study to pursue, and vocational plans. A personal data report, physical examination, and registration photograph are also included in the program.

ADMISSION TO ADVANCED STANDING

All applicants for admission who have attended another collegiate institution are required to file with the Admissions Office an official transcript of the college record together with a statement of honorable dismissal.

A student who transfers to the University from another accredited college or university may be given provisional credit by the Registrar for all courses satisfactorily completed, provided that similar courses are counted toward graduation at the University of Vermont. Transfer credit is not allowed for work completed with grade "D" or its equivalent, unless a more advanced course in the same subject has been passed with a higher grade in the institution from which the student transfers.

The credit is provisional, pending satisfactory completion of a semester's work at the University. If the student is in good standing at the end of his first semester, the transfer credits are fully granted. If, however, he is under warning, the departments concerned review the credits and report to the Committee on Admissions who then decide what credits will be allowed. Re-evaluation is rarely permitted once the credits have been finally determined.

ENROLLMENT

Every student is required to register and enroll on the designated days. All charges for the ensuing semester must be paid, or otherwise provided for, before enrollment is completed. Directions for enrollment are published for each semester.

After enrollment, no changes of studies will be allowed except such as are authorized by the Dean of the college of the University in which the student is registered. After Saturday of the first full week of the semester no enrollment or changes of studies will be permitted, except that a student may drop a course with his Dean's permission during the first three weeks of a semester without incurring any academic penalty.

COLLEGE ENTRANCE EXAMINATIONS

The College Entrance Examination Board will administer a series of tests during 1952 on the following dates: January 12, March 15, May 17, August 13, and December 6.

Complete information may be obtained from the College Entrance Examination Board, P. O. Box 592, Princeton, N. J.

The University recommends that applicants take the Scholastic Aptitude Test of the College Entrance Examination Board to support their applications for admission.

Student Expenses

The student expenses outlined in the following paragraphs are the anticipated charges for the academic year 1952-53. Changing costs, however, may require an adjustment of these charges.

TUITION: The tuition charges per semester are in accordance with the following schedule. These charges include health, infirmary, physical education and laboratory fees. However, refundable deposits may be required to cover loss or breakage in certain departments. Additional charges are made for individual lessons in music and for some expenses in the course in Dental Hygiene.

	Residents	Non-residents
Agriculture (see also below)	\$112.50	\$262.50
Education and Nursing (excluding Elemen- tary and Junior High School Education) Elementary Education and Junior High	2 12.50	262.50
School Éducation (see also below)	none	262.50
Arts and Sciences, Technology	212.50	262.50
Dental Hygiene	175.00	250.00
Medicine	275.00	350.00
Graduate Students (per hour)	14.00	17.50
Special Students (per hour)	18.00	22.00

DEFINITION OF A "RESIDENT STUDENT." For the purpose of determining the tuition to be paid, the Board of Trustees has adopted the following definition: "The term 'resident student' shall include only the following: (a) a minor student whose regular home is with a parent who has been domiciled in the State of Vermont for at least the preceding year; (b) a student of legal age who has himself been domiciled in the State of Vermont for at least the year preceding college matriculation."

COLLEGE OF AGRICULTURE. In the College of Agriculture the tuition charge for regular, undergraduate students who are residents of Vermont is reduced through a tuition scholarship of \$100.00 per semester granted such students by the State. The State enactment also provides that "any student transferring from courses in agriculture and home economics to other courses within the University, or to another educational institution, shall refund to the treasurer of the University . . . any sums which have been received as scholarships under this section, unless excused therefrom by the president."

EDUCATION AND NURSING. Most resident students in the Elementary Education and Junior High School Education Curricula pay no tuition. For details see Index, under "Fees and Tuitions, Elementary Education." SCHOOL OF DENTAL HYGIENE. Under the provisions of State law and by arrangement with State officials, a special tuition fee has been established for students in this School. The tuition fee is \$175.00 per semester for residents of the State of Vermont and \$250.00 per semester for nonresident students.

COLLEGE OF MEDICINE. The tuition fee is \$275.00 per semester for Vermont residents and \$350.00 for others. There are fifty State Scholarships of \$100.00 a year each available to Vermont residents. Students allowed to repeat a year are charged full tuition for that year.

An application fee of \$10.00 is charged each applicant for admission.

EXCEPTIONAL ENROLLMENTS. For an enrollment of fewer than twelve hours the charge is \$18.00 (\$22.00 for non-residents) per semester hour. The same fee is charged students carrying for credit courses in excess of the normal program in the several curricula. For a special student fifteen hours is considered normal.

With the approval of his Dean and the instructor concerned, a student who is regularly enrolled and carrying a normal program may "audit" a course. In such cases no entry is made on the student's permanent record, no credit is given for the work, and no charge is made.

Students who by reason of conditions over which they have no control require more than four years to complete the requirements for a degree shall be charged no more than the full tuition for four years.

TUITION FOR COURSES IN APPLIED MUSIC: Private lessons are approximately one-half hour in length, fifteen being given in each semester. Students who enroll as regular full-time students in the Music Education curriculum, paying full tuition, are charged one-half the regular rates for applied music for such courses as are required in the curriculum. All others pay the scheduled charges.

PIANO, ORGAN, VIOLIN AND SINGING

One lesson a week	\$35.00	per	semester
Two lessons a week			
. Use of organ one hour a day	25.00	per	semester

MATRICULATION FEE: A fee of five dollars is required of all new regular session matriculants.

STUDENT ACTIVITY FEE: All students who are enrolled in twelve semester hours or more in the Colleges of Arts and Sciences, of Technology, of Agriculture, and of Education and Nursing are charged a fee of \$7.50 per semester. This fee is assessed, allocated, and controlled by Student Association and covers the support of recognized student organizations

Student Expenses

and activities, including subscriptions to the Vermont Cynic and the Ariel. First-year medical students who enter the College of Medicine after three years in the College of Arts and Sciences are charged this same fee, which includes membership in the Osler Society.

Graduate students, special students, unclassified students, and students in the College of Medicine may, by paying this fee, become entitled to the benefits listed above.

OSLER SOCIETY FEE: All students in the College of Medicine are charged an Osler Club fee of \$3.50 per year.

LATE REGISTRATION FEE: A late registration fee of six dollars is charged students who fail to complete enrollment at the appointed times. In unusual cases, exemption from this charge may be made by the Deans.

CHANGE OF ENROLLMENT FEE: A fee of one dollar is charged, except in the College of Medicine, for any change of enrollment requested by the student concerned. Deans may waive this fee in exceptional cases.

DEGREE FEE: The fee for the Baccalaureate Degree, payable during the semester prior to graduation, is ten dollars; for the Master's Degree, the technical Degrees of C.E., E.E., or M.E., the fee is twenty-five dollars.

REGISTRATION DEPOSIT: A registration deposit of thirty-five dollars is required of every applicant within two weeks after he has received notification of his acceptance as a student of the University. The total amount of this deposit is credited to the student's account on his first semester's bill. In the event that the applicant cancels previous to August 15, fifteen dollars of this amount will be refunded.

BREAKAGE CHARGE: A charge will be made, as recommended by the department or office involved, for excessive or unusual breakage or damage and for breakage or damage of expensive equipment.

ROOM CHARGES: Rooms in college dormitories are rented for the entire year and the prices are uniform in all dormitories. Double rooms are ninety dollars per occupant per semester; single rooms rent for one hundred and twelve dollars and fifty cents. Nominal charges for the use of certain electrical appliances may be levied upon occupants of the dormitories. The rent for semi-permanent trailers for married couples is twenty-five dollars per month.

BOARD: All freshman and sophomore women who live on Redstone Campus are required to board at Robinson Hall. The current charge is \$175.00 per semester. Most other students, except those living in cooperative houses or fraternity houses, eat at the Waterman Dining Hall where

Student Expenses

meals are served cafeteria style. Three well-balanced meals per day may be purchased individually at an approximate cost of \$14.00 per week.

ESTIMATED EXPENSES PER SEMESTER

The following estimates are based on regular tuition for resident undergraduate students. Non-resident students should add \$50.00 and those receiving scholarships or aid from the State should make appropriate deductions.

*Tuition	\$212.50
Student Activity Fee	\$7.50
†Textbooks and Supplies	\$20.00-\$30.00
Room	\$90.00-\$112.50
Board	\$175.00-\$225.00
Average Total	

* Not applicable to students in the School of Dental Hygiene.

[†]Students in the School of Dental Hygiene should expect to stand an expense up to \$1\$0.00 for the year to cover textbooks, laboratory fees, instruments, and uniforms.

PAYMENT OF BILLS

The University does not send bills to students or parents prior to registration. All fees for the semester are assigned at the time of registration and students are expected to present personal checks, travelers checks, or cash at that time. Checks should be made payable to the University of Vermont and State Agricultural College. Enrollment is not complete until all charges have been paid or otherwise provided for by arrangements satisfactory to the Treasurer. Students who have not settled their accounts by the end of the semester will not be given official credit for their semester's work.

STUDENT BANK

A student bank is operated by the University and is maintained in the Cashier's Office. Deposits may be sent to the Treasurer or made personally in the Cashier's Office. Withdrawals from these accounts may be made at registration to cover fees assigned or at other times in the Cashier's Office.

Student Aid

REFUNDS

In the event of withdrawal from college, refunds are made as follows:

1. During the first week of any semester the full tuition is refunded. Thereafter 20% of the tuition is deducted for each week that has elapsed.

2. No refund is made of the matriculation or student activity fee.

3. No refund of room rent is made unless a replacement can be found.

4. Refund of board is made on a pro rata basis.

Student Aid

Student fees do not meet the full cost of an education at the University. The income from endowment, State and Federal appropriations, and current gifts furnish the balance, amounting in some courses to a contribution of more than \$2,000 a year toward the education of the student.

Many worthy and deserving students, however, are still unable to meet the existing financial charges and for them the University provides, so far as its resources permit, considerable aid in the form of scholarships, loans, prizes, and employment. Application for student aid should be made to the Student Aid Committee on forms which are available in the offices of the Deans. New students should request forms from the Director of Admissions or from their principal if they are attending a high school in Vermont.

SCHOLARSHIPS

During the past year, a total of \$287,000.00 was awarded to students, including the agricultural, teacher-training, medical, and senatorial scholarships. Of this amount, \$152,440.00 was provided by the University from scholarship endowments and in the form of prizes. Ninety-five percent of the scholarships were awarded to residents of Vermont. There are, however, a number of scholarships available to non-residents including the Alumni Memorial Scholarships for men.

Any student who has received an endowed or current scholarship in consideration of financial need is expected to repay that scholarship should he, at any time prior to graduation, transfer to another institution.

Student Aid

Following is a list of some of the scholarships and prizes available. A complete list of endowed scholarships and loan funds will be found in the appendix.

Alumni Memorial Scholarship Fund. An annual gift from the Alumni Council available for men only. Worthy students who are in need of funds and who meet the qualifications of scholarship, character, leadership, and participation in student activities are recommended to the Student Aid Committee by a special committee of the Alumni Council.

Honor. Two hundred dollars each, for the freshman year only, awarded in each accredited Vermont high school to the highest standing boy and girl eligible for admission to the University.

Prize Contests. In order to encourage student activities in the high schools and preparatory schools of the State of Vermont, the University of Vermont and State Agricultural College conducts annual contests in the following fields:

- a. DEBATING: The University is host in the spring of each year to the state debating tournament and awards to the winners of that tournament prizes in the form of scholarships at the University in the amount of two hundred dollars for first place winner, one hundred and twenty-five dollars and seventy-five dollars respectively to the second and third place winners.
- b. PRIZE SPEAKING: For many years the University has awarded scholarship prizes to those showing outstanding excellence in a speaking contest held at the University. No such contests have been held recently. However, they will be reinstated in the near future.
- c. CREATIVE WRITING: The University awards three one hundred dollar scholarships as prizes for the best entrys in the form of short stories, essays, or poems in the annual literary contest.
- d. EDITORIAL: The University annually will award three suitable prizes to the three best student newspapers. In judging the newspapers the schools are classified according to size into three divisions and an award made for the best paper in each division.

Senatorial. Sixty at \$120 each, for students in the College of Arts and Sciences, the College of Technology, and the School of Education and Nursing, awarded by members of the Vermont Senate. Apply to a senator from your county.

Elementary and Junior High School Education. A limited number of scholarships, varying in amount according to qualifications and need, are



FRESHMAN COEDS AT THE FOUNTAIN ON THE COLLEGE GREEN

UVM TOUCHDOWN





THE REDSTONE CAMPUS FOR WOMEN

SOUTHWICK MEMORIAL BUILDING AND GRACE GOODHUE COOLIDGE HALL



Student Aid

awarded annually by the State Board of Education to students in these two curricula, in addition to the tuition exemption.

Endowed Scholarships. Some are restricted for use of students from certain towns or counties, or from certain schools, or in certain courses, and some are unrestricted as to use.

Wilbur Fund. The income from the fund is available to needy students who are residents of Vermont and who have earned entrance or college records that indicate extraordinary scholastic ability. The amounts awarded vary with individual needs.

LOAN FUNDS

Loan funds are apportioned annually to needy and deserving students, permitting them to pay a part of the cost of college attendance at some future time. The notes are usually repaid during the productive years immediately following graduation.

STUDENT EMPLOYMENT

For details concerning Student Employment, see Personnel Services.

DEGREES

Degrees are conferred on the recommendation of the different Colleges, and specific requirements will be found in the sections devoted to the respective Colleges.

To be eligible for graduation, a student must have attained a grade average of 72 or above in the work required for graduation in his curriculum. Grades in courses accepted for transfer credit are excluded in computing this average.

To be eligible for a degree, a student must have completed eight semesters, or the equivalent in semesters and quarters. Exceptions to this rule may be made in special cases by the University Council.

With the exception noted in the next sentence, every candidate for a degree is required to spend his final year in residence. Those who have completed three years of pre-medical study in the University are awarded their degrees after one year of study in any approved College of Medicine.

The degrees are as follows:

COLLEGE OF ARTS AND SCIENCES

LIBERAL ARTS CURRICULUM: Bachelor of Arts (B.A.)

PRE-MEDICAL CURRICULUM (3 YRS.) AND MEDICINE (1 YR.): Bachelor of Science (B.S.)

COLLEGE OF TECHNOLOGY

CHEMISTRY CURRICULUM: Bachelor of Science in Chemistry (B.S. in Ch.) COMMERCE AND ECONOMICS CURRICULUM: Bachelor of Science in Commerce and Economics (B.S. in Cm. and Ec.)

CIVIL ENGINEERING CURRICULUM: Bachelor of Science in Civil Engineering (B.S. in C.E.)

ELECTRICAL ENGINEERING CURRICULUM: Bachelor of Science in Electrical Engineering (B.S. in E.E.)

MANAGEMENT ENGINEERING CURRICULUM: Bachelor of Science in Management Engineering (B.S. in Man. E.)

MECHANICAL ENGINEERING CURRICULUM: Bachelor of Science in Mechanical Engineering (B.S. in M.E.)

MEDICAL TECHNOLOGY CURRICULUM: Bachelor of Science in Medical Technology (B.S. in M.T.)

COLLEGE OF AGRICULTURE

- AGRICULTURAL CURRICULUM: Bachelor of Science in Agriculture (B.S. in Ag.)
- AGRICULTURAL ENGINEERING CURRICULUM: Bachelor of Science in Agricultural Engineering (B.S. in Ag. Engrg.)
- HOME ECONOMICS CURRICULUM: Bachelor of Science in Home Economics (B.S. in H.Ec.)

COLLEGE OF EDUCATION AND NURSING

BUSINESS EDUCATION CURRICULUM: Bachelor of Science in Business Education (B.S. in Bus. Ed.)

*ELEMENTARY EDUCATION CURRICULUM: Bachelor of Science in Education (B.S. in Ed.)

*INDUSTRIAL EDUCATION CURRICULUM: Bachelor of Science in Education (B.S. in Ed.)

* JUNIOR HIGH SCHOOL EDUCATION CURRICULUM: Bachelor of Science in Education (B.S. in Ed.)

MUSIC EDUCATION CURRICULUM: Bachelor of Science in Music Education (B.S. in Mus.Ed.)

- SECONDARY EDUCATION CURRICULUM: Bachelor of Science in Education (B.S. in Ed.)
- NURSING CURRICULUM: Bachelor of Science in Nursing (B.S. in N.)
- NURSING EDUCATION CURRICULUM: Bachelor of Science in Nursing Education (B.S. in N.Ed.)

SCHOOL OF DENTAL HYGIENE

DENTAL HYGIENE CURRICULUM: Certificate in Dental Hygiene

GRADUATE STUDY

Master of Arts (M.A.); Master of Arts in Teaching (M.A. in Teaching); Master of Science (M.S.); Master of Education (M.Ed.); Civil Engineer (C.E.); Electrical Engineer (E.E.); Mechanical Engineer (M.E.)

COLLEGE OF MEDICINE

MEDICAL CURRICULUM: Doctor of Medicine (M.D.)

* Granted in co-operation with the Vermont State Board of Education.

HONORS

GENERAL HIGH STANDING

The Bachelor's Degree may be conferred "with Honors," by vote of the 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*. In the College of Medicine, the five students who have attained the highest average of marks during the entire four years' course are graduated as Doctors of Medicine, *cum laude*. The names of those who have received these honors and of those who have won prizes will be printed in the Commencement program and in the next annual Catalogue.

SPECIAL HONORS IN THE COLLEGE OF ARTS AND SCIENCES

A student in the College of Arts and Sciences who at the end of his junior year has an average of 85 or above for the work of the sophomore and junior years, may become an applicant for Special Honors in a particular subject. His program for the senior year must be approved not later than the end of the junior year by the department in which Honors are sought and by the Committee on Honors, and he must present a satisfactory thesis and pass an oral examination on the field of special study.

DEANS' LISTS

The Deans of the undergraduate colleges publish at the beginning of each semester the names of those students who have attained an average of at least 85 in their college credit courses during the preceding semester.

GRADING SYSTEM

Scholarship is graded on a percentage scale. Grades are reported and recorded numerically. The minimum passing grade in the undergraduate colleges is 60; any grade lower than 60 represents a failure and indicates that the course must be repeated if credit is to be obtained. A student must obtain an average grade of 72 or above in the work required for graduation in his curriculum, exclusive of grades in courses accepted for transfer credit.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the

disciplinary powers of the University, which is free to cancel his registration at any time on any grounds if it considers such action to be for the welfare of the institution. The disciplinary authority of the University is vested in the President in such cases as he considers proper, and, subject to the reserve powers of the President, in the several Deans.

USE OF ENGLISH

Correct English usage is demanded by all departments in the University. Written work of any kind which is unsatisfactory in manuscript form, grammar, punctuation, spelling, or effectiveness of expression will be penalized, regardless of contents. Students whose written work falls below the standard of correct usage may be remanded to the English Department for additional instruction, even though Freshman English has been passed.

SCHOLASTIC REPORTS

All students enrolled in the undergraduate colleges receive reports of scholarship from the respective Deans' offices after the close of each semester. These reports are also sent by the Recorder to the parent or guardian of each freshman student and to the principal of the secondary school from which he was graduated. Reports of upperclass students are sent to parents only upon request. Special reports of low standing are sent by the Deans' offices about the middle of each semester, both to the students concerned and to the parent or guardian.

In the College of Medicine one report is sent covering the work of the college year.

On leaving the University every former student or graduate may procure one photographic transcript of record without charge. Extra copies may be obtained at a cost of one dollar per copy.

NUMBERING AND DESCRIPTION OF COURSES

A separate number is used for each semester course and for each semester of a year course. The form 1, 2 indicates that the separate semesters may be taken independently for credit, while 1-2 indicates that they may not be taken independently for credit and, unless otherwise stated, must be taken in the sequence indicated.

Courses numbered from 100 to 199 are advanced courses, normally open only to juniors and seniors; those numbered from 200 to 299 are for graduate students only. The letter "G" preceding the course number indicates that the course has been approved by the Director of Graduate Study for credit toward advanced degrees, when taken by graduate students.

The number of credit hours *per semester* for each course is given in italics on the first line of the description, and is followed by Roman numerals indicating the semester or semesters during which it is given in the usual academic year.

In certain departments, a form such as (2-3) immediately follows the course title. This indicates the number of class hours respectively of lecture or recitation and of laboratory for the course. Lecture and recitation periods are fifty minutes in length, laboratory periods at least two class hours or 110 minutes.

Courses are elective, unless otherwise stated, subject to the prerequisites indicated. Prerequisite courses are in the same subject as the courses for which they are required, unless otherwise designated. Rotating and alternating courses show the college year during which they are to be given.

OBJECTIVE

The College of Arts and Sciences aims to provide for young men and women the means and opportunity of fitting themselves intellectually, emotionally, and spiritually to play a responsible part in the world of thought and action.

It devotes itself to the inculcation of ideals and the cultivation of ideas. It seeks to encourage habits of clear, independent thinking and effective expression; to stimulate an appreciative understanding of the thought and achievement of man; to develop sound critical judgment and a spirit of tolerance; to arouse the intellectual curiosity which is the basis of continuing self-education.

Its fundamental purpose is to instill the courage and conviction to exemplify the enduring values of American democracy.

THE LIBERAL ARTS CURRICULUM

The curriculum in Liberal Arts, leading to the degree of Bachelor of Arts, is designed to assure adequate training in language, particularly in English, as the mother tongue and the chief tool of thought and expression, and in certain other subjects essential to an understanding of the various fields of human knowledge; and to provide for further study and mastery of a chosen field of concentration.

Every candidate for this degree must fulfill the requirements stated below, and present a total of 120 semester hours of credit. For those required to take Military Science and Physical Education the total of credit hours shall be increased by the number of hours required in those subjects.

REQUIRED OF ALL STUDENTS:

- 1. English. English Composition the first year, unless exempted, and the second year either English, American, or World Literature.
- 2. Foreign Language. One course of at least intermediate grade in French, German, Greek, Latin, or Spanish, to be completed as early as possible in the college career.
- 3. Science. One laboratory course, normally the first year, to be chosen from Botany, Chemistry, Geology, Physics, and Zoology.
- 4. Physical Education and Military Science. Two years of Physical Education for men and women, two years of Military Science for men, a year course in Hygiene for women.

5. Field of Concentration. Each student, in consultation with his advisor, must choose a field of concentration during his sophomore year. The specific courses making up the field, as well as the student's whole program for the last two years, are chosen in consultation with the Chairman of the Department in which the major part of the work is to be taken and must have his approval. There are certain restrictions to be met:

the field must be a well integrated whole, adapted to the student's special interests;

it must include a minimum of six courses totalling not less than 36 semester hours, at least half, but not all, to be taken in one subject;

it must contain at least two advanced courses in one subject and one advanced related course in another subject;

each student must take at least one course, normally an advanced course, in his field of concentration in each semester of his junior and senior years.

ADDITIONAL REQUIREMENTS FOR STUDENTS CONCENTRATING IN FIELDS IN THE FOLLOWING DIVISIONS:

- *Language and Literature, or Music: History (American, Ancient, Medieval, or Modern European) normally first year; a second foreign language reaching the intermediate level; a second year course in the Social Science division.
- Social Science: History (American, Ancient, Medieval, or Modern European) normally the first year; during the first two years a total of two year courses in different departments, chosen from the following: Economics, Philosophy, Political Science, and Psychology.
- Science and Mathematics: Freshman Mathematics (11, 12) and Calculus (21-22)[†] the first two years; Inorganic Chemistry[†] the first year and General Physics[†] the second year; a total of two year courses in the divisions of Language, Literature, and Fine Arts (including Music) and of the Social Sciences.
- * It is strongly recommended by the respective departments that students who wish to choose modern foreign language as their field of concentration complete Intermediate Latin in college unless they presented four years of Latin for entrance. The English Department states that "students concentrating in English will be aided by courses in Latin, particularly if they intend to continue with graduate study."

[†] Students concentrating in Mathematics may omit Inorganic Chemistry. Those concentrating in Botany or Zoology may take Mathematics 1, 2 and omit Calculus and may postpone Chemistry and Physics each one year, beginning their special subject the first year.

PRE-PROFESSIONAL PREPARATION

Students who plan to enter professional colleges requiring previous collegiate preparation should register in the College of Arts and Sciences. The variety of courses offered and the freedom of election in that College is such that all the requirements for any professional school may be met. Many students will desire so to direct their four-year undergraduate course as to provide in addition to a sound general education appropriate preprofessional training for later work in the medical sciences, law, or theology.

MEDICAL SCIENCES (MEDICINE, DENTISTRY)

The requirements for admission to an accredited medical college include not less than three years of undergraduate work, during which the courses required by the American Medical Association must be completed.* Any student who wishes to enter medical college should by the beginning of his sophomore year consult the catalogue of the college of his choice and arrange to include in his program courses required by that particular school.

Students will find it definitely to their advantage to plan a four-year program which, in addition to the required courses listed below, includes courses leading to the fulfillment of the requirements for a Bachelor of Arts degree. Those who wish to meet the minimum requirements for admission to medical college follow the first three years of the program below. By successfully completing these three years here and one year in an accredited medical college, they will qualify, on application, as candidates for a Bachelor of Science degree.

In the following outline, courses listed are normally taken in the year indicated. The program may be modified both for the needs of the individual student and to allow for concentration in a particular field. A student must have completed a total of 90 semester hours by the end of the third year to be considered for admission to a medical college.

FIRST YEAR	lst 2n SEMEST		ECOND	YEAR	lst 2nd semester
English Composition Inorganic Chemistry Mathematics Zoology Foreign Language (Elementary or Intermediate) Physical Education Military Science (Men) Hygiene (Women)	4 4 3 3 4 4 7 3 3 (1) (1 2 2	+ 5 +) 2 +	†Intermed Quantita Physics Electives Physical Military	Amer., or World liate For. Lang. ttive Chemistry Education Science (Men) ready completed.	

* For further information see Index under "Admission, College of Medicine."

THIRD YEAK	st	and	
3E	м	ESTER	
Organic Chemistry	4	4	
Social Science Electives	6	6	
Courses in field of concentra-			
tion and electives			

Courses in field of concentration and electives

FOURTH YEAR

The requirements for admission to colleges of dentistry vary but in all cases include at least two years of college work with at least one course each in biology, inorganic chemistry, physics, and English. Hence, the course of study advised as preparation for medicine may be used as a basis for selection by those interested in dentistry.

LAW

American law schools, as a rule, require graduation from a four-year college with a Bachelor's degree prior to admission. There is no prescribed curriculum which is an absolute requisite for admission, but the student is advised to include in his undergraduate course substantial elections in the field of languages, literature, history, economics, political science, and philosophy.

THEOLOGY

Graduation from a four-year college is rapidly becoming prerequisite for admission to most theological seminaries. Although no prescribed curriculum is demanded as preparation for such professional schools, the student is advised to elect substantially from the departments of languages, particularly classics, history, philosophy, psychology, and social studies.

COURSES OF INSTRUCTION

ART

Associate Professor Colburn; Professor Kent; Assistant Professor Mills

HISTORY OF ART

1 GREEK ART.

Three hours. П

The history of art in Greek lands through the Greco-Roman period, with emphasis on sculpture and architecture and some attention to vase-painting. The aim is to help the student understand the meaning of art and appreciate some of the masterpieces. *Prerequisite:* sophomore standing. *Mr. Kent*

4 MODERN ART.

Study and appreciation of contemporary trends in sculpture, architecture, and painting from the period of Impressionism through Surrealism. with emphasis on French and American influences. Mrs. Mills

Prerequisite: sophomore standing.

ARTS AND CRAFTS

11.12 ARTS AND CRAFTS. Three hours. 1, 11 Experiences in functional design using various media to develop good taste and creative ability. Different processes including leather tooling, block-printing, ceramics, and work with metal are presented. A weekly lecture period relates the history and appreciation of arts and crafts to student work.

Prerequisite: sophomore standing.

DRAWING AND PAINTING

*Two or three hours. 1, 11 21, 22 DRAWING AND PAINTING. Composition and painting techniques, with emphasis on a clearer understanding of modern schools of painting and on individual develop-Mr. Colburn ment.

ART EDUCATION

For courses in ART EDUCATION, see Elementary Education 4-5, 101.

BOTANY

For courses in BOTANY, see the College of Agriculture.

CHEMISTRY

For courses in CHEMISTRY, see the College of Technology.

CLASSICAL LANGUAGES

Professors Kent and Kidder; Associate Professor Pooley; Mr. Lane

SPECIAL REQUIREMENTS FOR CONCENTRATION IN GREEK: Satisfactory completion of twenty-four semester hours, twelve of which must be in courses numbered above 100, and one advanced related course (at least six semester hours).

SPECIAL REQUIREMENTS FOR CONCENTRATION IN LATIN: Satisfactory completion of twenty-four semester hours, twelve of which must be in

Three hours. 11

Mrs. Mills

^{*} This course may not be taken for credit by freshmen. Others may take it for credit once or twice, and in exceptional cases a third time by permission of the instructor and the Committee on Studies. To receive credit a student must complete at least three semester hours.

courses numbered above 100, and one advanced related course (at least six semester hours). Courses in Greek are strongly recommended, particularly to those who contemplate graduate work in Classics.

GREEK

Four bours. 1, 11 1-2 ELEMENTARY GREEK. The essentials of Classical Attic Greek. Regular prose compositions and selected readings from various Greek authors. Mr. Pooley 11-12 INTERMEDIATE GREEK. Three hours. 1, 11 Plato's Euthyphro and Apology; selections from the Iliad and the Odyssey. Mr. Lane Prerequisite: 1-2 or its equivalent. Three hours. 1 G101 GREEK ORATORS. Reading of selected speeches of Lysias and Demosthenes. Lectures on the ancient canons of rhetoric and their application. (Offered in alternate years, 1952-53.) Mr. Kent Prerequisite: 11-12. G102 GREEK COMEDY. Three hours. II Two plays of Aristophanes. (Offered in alternate years, 1952-53.) Mr. Kent Prerequisite: 11-12. Three hours. 1 G103 GREEK HISTORIANS. Thucydides, Books I and II. Selections from Herodotus and from Xenophon's Hellenica. (Offered in alternate years, 1953-54.) Prerequisite: 11-12. G104 GREEK TRAGEDY. Three hours. II Sophocles' Antigone and Euripides' Medea, or two equivalent plays. (Offered in alternate years, 1953-54.) Prerequisite: 11-12. For GREEK ART, see History of Art 1. For GREEK LITERATURE IN TRANSLATION, see General Literature 1. For GREEK PHILOSOPHY, see Philosophy 107.

LATIN

1-2 ELEMENTARY LATIN. Three bours. 1, 11 The essentials of Ciceronian Latin. Regular prose exercises and selected readings from Caesar. For students who present less than two

42

years of high-school Latin.* Credit is allowed only if Latin 11-12 is Mr. Lane also completed.

11-12 INTERMEDIATE LATIN. Three hours. 1, n Extensive review of Latin syntax. Cicero, In Catilinam I, II; Pro Archia. Vergil, Aeneid, Books I and II. Prerequisite: 1-2, or two years of high-school Latin. Mr. Kent

21-22 LIVY AND HORACE.

Selected passages from Livy, Books XXI and XXII; lectures on Roman historiography. Selections from Horace's Odes, with special attention to metrical problems and to poetic diction.

Prerequisite: 11-12, or four years of high-school Latin. Mr. Kent

101 ROMAN LETTERS.

The reading of selected letters of Cicero, Pliny, and Fronto; special attention to their historical contribution to our knowledge of their times. Mr. Pooley

Prerequisite: 21-22.

102 ROMAN LYRIC POETS.

Selections from the works of Catullus, Horace, Propertius, Tibullus, and Statius.

Prerequisite: 21-22.

G113 ROMAN EPIC POETS.

Extensive reading from Vergil's Eclogues and Aeneid and from Ovid's Metamorphoses. Lectures on the historical development of Roman epic forms and Latin hexameter verse. (Offered in alternate years, 1952-53.)

Prerequisite: 101-102.

G114 ROMAN REPUBLICAN PROSE.

Extensive reading in the works of Caesar and Sallust, and in the speeches of Cicero. (Offered in alternate years, 1952-53.) Prerequisite: 101-102. Mr. Kent

G115 HISTORIANS OF THE EMPIRE. Three hours. 1 Augustus, Res Gestae. Tacitus, Annals, I-IV. Selections from Suetonius and Ammianus Marcellinus. (Offered in alternate years, 1953-54.) Prerequisite: 101-102.

* Students who have completed two years of high school Latin more than two years prior to their entrance into the University may be permitted by action of the Department to enroll in Latin 1-2 for credit.

Three hours. 1, 11

Three hours. 1

Three hours. 11

Mr. Pooley Three hours. 1

Mr. Kent

Three hours. 11

G116 ROMAN SATIRE.

Iuvenal, Satires Selections from the satires of Horace and Persius. I, III, X. Lectures and outside reading on the development of this literary form. (Offered in alternate years, 1953-54.) Prerequisite: 101-102.

Three hours. II

Three bours. 1 G121 LATIN PROSE COMPOSITION. Required of those who wish to be recommended to teach Latin. Prerequisite: 101-102. The Staff

Three hours. 1, 11 G201-202 GRADUATE COURSES. Graduate courses are offered on occasion for resident candidates for the Master of Arts degree.

For LATIN LITERATURE IN TRANSLATION, see General Literature 4. For THE TEACHING OF LATIN, see Secondary Education 152.

ECONOMICS

For courses in ECONOMICS, see the College of Technology.

EDUCATION

For courses in EDUCATION, see the School of Education and Nursing.

*ENGLISH

Professors Pope and Lindsay; Associate Professors Hughes, Sullivan, and Wainwright; Assistant Professors Aldridge, Bandel, Bogorad, Dean, Long, Marston, and Trevitbick; Messrs. Akey, Hoffman, Iones, and McArthur, and Miss Schroeder.

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of "English Literature" and six semester courses of advanced grade. The advanced related course may be in language, music, or any course approved by the department. It is expected that an advanced related course will be taken in the senior year.

1-2 ENGLISH COMPOSITION.

Three hours. 1, 11 Criticism of the common errors of writing and speech; study of words, sentences, and paragraph construction; theme writing, oral reports, study of selected literature as illustrative of the principles discussed. Required of all freshmen, except those who demonstrate proficiency by a preliminary test. The Staff

* Sophomores and freshmen excused from English Composition must take English Literature. American Literature or World Literature.

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Classical Languages, English

 13, 14 PERIODICAL WRITING. 13 News writing. 14 Short story and other forms of writing. Prerequisite: 1-2 or exemption therefrom. 	Three bours. 1, 11 Mr. Dean
 16 EXPOSITORY WRITING. The writing of expository papers and articles. more engineers; open to others only by permission <i>Prerequisite:</i> 1-2 or exemption therefrom. 	Three hours. 1, 11 Required of sopho-
18 ADVANCED COMPOSITION. Recommended to those who wish to teach Engli wish practice in writing. Prerequisite: sophomore standing.	<i>Three hours</i> . In ish, and to those who <i>Mr. Aldridge</i>
 21, 22 ENGLISH LITERATURE. An outline of the history of English literature to modern times. Required of students concentra <i>Prerequisite:</i> 1-2 or exemption therefrom. 	Three hours. 1, 11 e from its beginning
 23, 24 AMERICAN LITERATURE. A survey of American literature, exclusive of colonial beginnings to the present. Extensive react and class discussions. 23 The 17th to the mid-19th century. 24 The mid-19th century to the present. Prerequisite: 1-2 or exemption therefrom. 	Three hours. 1, 11 of the drama, from ling, written reports, The Staff
25, 26 MASTERPIECES OF WORLD LITERATURE. A detailed study, in English translation, of ten r literature which have made significant contributi ment of western culture. <i>Prerequisite:</i> 1-2 or exemption therefrom.	Three hours. 1, 11 masterpieces of world
G101 CHAUCER. The chief minor poems and some of <i>The Canterl</i> phasis on the reading of Chaucer's work as poetr and qualities, and the picture of his time portraye <i>Prerequisite</i> : 21, 22; 23, 24; or 25, 26.	ry, his literary scope
G107-108 SHAKESPEARE. Lectures and reading on the Elizabethan drama and textual interpretation of selected plays of Sha <i>Prerequisite</i> : 21, 22; 23, 24; or 25, 26.	Three hours. 1, 11 with literary study kespeare. Mr. Pope
G111 RENAISSANCE POETRY. The major poets of Tudor and Stuart Englan Surrey to Donne and his followers, with special	<i>Three hours.</i> 1 d, from Wyatt and emphasis on Spenser

and the development of Elizabethan lyric poetry. (Offered in alternate

The works of John Milton including Paradise Lost, Paradise Regained, Samson Agonistes, some of the minor poems, and selections from the prose works. Lectures, discussions, and reports. (Offered in alternate years, 1953-54.) Prerequisite: 21, 22; 23, 24; or 25, 26. Mr. Bogorad G117, 118 RESTORATION AND EIGHTEENTH CENTURY. Three hours. I, II The works, including selected plays and novels, of significant writers from 1660 to 1800, from Dryden to the early romantic poets. Particular emphasis on the rise of the essay, the satires of Pope and Swift, and the works of Dr. Johnson and his circle. (Offered in alternate years, 1952-53.) Prerequisite: 21, 22; 23, 24; or 25, 26. Mr. Bogorad G121, 122 THE ROMANTIC PERIOD. Three hours. 1, 11 selected topics and reports in class. (Offered in alternate years, 1953-54.) 121 The development of the Romantic Movement through Wordsworth and Coleridge. Mr. Lindsay 122 Byron, Shelley, Keats, and other Romantic poets and prosewriters. Mr. Pope Prerequisite: 21, 22; 23, 24; or 25, 26. Three hours. I. II English fiction from its origins through the nineteenth century. Masterpieces are stressed and read critically. (Offered in alternate years, 1953-54.) Prerequisite: 21, 22; 23, 24; or 25, 26. Mr. Wainwright G131-132 VICTORIAN LITERATURE. (1832-1900). Three hours. 1, 11 A study of the lives and the works (except the novel) of the sig-Prerequisite: 21, 22; 23, 24; or 25, 26. Mr. Wainwright Three hours. I Prerequisite: 21, 22; 23, 24; or 25, 26. Mr. Aldridge Three hours. 11 (Offered in alternate years, 1952-53.) Prerequisite: 21, 22; 23, 24; or 25, 26. Mr. Pope

years, 1953-54.)

G112 MILTON.

Prerequisite: 21, 22; 23, 24; or 25, 26.

Lectures and class discussion, collateral reading, individual study of

G127-128 ENGLISH NOVEL.

nificant writers of the era by lectures, discussion, and reports. Outstanding poets and prose writers are studied as spokesmen of their own age and harbingers of the present one. (Offered in alternate years, 1952-53.)

G137 MODERN NOVEL.

G138 MODERN DRAMA.

Mr. Bogorad

Three hours. II

English

Three hours. 1 G139 MODERN AMERICAN AND BRITISH POETRY. Prerequisite: 21, 22; 23, 24; or 25, 26. Three hours. 11 G140 MODERN SHORT STORY. Prerequisite: 21, 22; 23, 24; or 25, 26. G151, 152 AMERICAN NOVEL. Masterpieces of nineteenth-century American fiction selected on the basis of literary merit. Lectures, class discussions, oral and written reports. (Offered in alternate years, 1952-53.) 151 Hawthorne, Melville, and others. 152 Mark Twain, Howells, James and others. Prerequisite: 21, 22; 23, 24; or 25, 26. Three hours. 1, 11 G157, 158 MAJOR AMERICAN AUTHORS. The writings of some major American authors considered from the viewpoint of literature, their historical importance, and their contributions to the thought of the present. Informal discussion, textual analysis, prepared papers. (Offered in alternate years, 1953-54.) 157 Emerson, Whitman, and Thoreau 158 Poe, Emily Dickinson, and T. S. Eliot Prerequisite: 21, 22; 23, 24; or 25, 26. Three hours. II G160 MODERN ENGLISH. The development of Modern English; Modern English usage, with readings of illustrative selections. (Offered in alternate spring semesters, 1954.) Prerequisite: 21, 22; 23, 24; or 25, 26. Three hours. 11 G162 OLD AND MIDDLE ENGLISH. Development of the language through the Old and Middle English periods, with readings of illustrative selections. (Offered in alternate spring semesters, 1953.) Prerequisite: 21, 22; 23, 24; or 25, 26. Miss Hughes

G171, 172 LITERARY THEORY.

The more important critical writings, ancient and modern, considered as contributions to the theory of literature and as aids to interpretation of literary works. (Offered in alternate years. 1952-53.) 171 Bibliography and methods of literary study. 172 History and principles of criticism.

Prerequisite: 21, 22; 23, 24; or 25, 26.

G174 POETICS.

An introduction to poetics, with an elementary study of the forms and nature of poetry. (Offered in alternate years, 1953-54.) Prerequisite: 21, 22; 23, 24; or 25, 26. Mr. Lindsay

Mr. Wainwright

Mr. Lindsay

Three hours. 1, 11

Mr. Trevithick

Mr. Lindsay Mr. Trevitbick

Miss Hughes

Three hours. 1, 11

Mr. Lindsay

Three hours. II

Three hours. 1, 11 G175-176 CREATIVE CRITICISM. A seminar devoted to critical analysis of contemporary fiction. Mr. Aldridge Prerequisite: 21, 22; 23, 24; or 25, 26.

For BIBLICAL LITERATURE, see Religion 11, 12; for foreign literatures in translation, see General Literature.

GENERAL LITERATURE

1 GREEK LITERATURE IN TRANSLATION. Three hours. 1 Lectures on the development of the various branches of Greek literature and on its chief authors, with special emphasis on Homeric epic and Readings in standard translations from the more important drama. writers. No knowledge of Greek required. Mr. Lane Prerequisite: junior standing.

Three hours. II **4 LATIN LITERATURE IN TRANSLATION.** Lectures on the development of Latin literature and on the principal Latin writers, with some emphasis on the historical background and attention to the relation of Latin literature to Greek and English literature. Readings in standard translations from the more important authors. No knowledge of Latin required. Mr. Lane Prerequisite: junior standing.

Three hours. II 12 GERMAN LITERATURE IN TRANSLATION. Lectures on the development of German literature; reading and dis-

cussion of representative works. No knowledge of German required. Prerequisite: junior standing. Mr. Carpenter

GEOLOGY

Associate Professor Doll, Assistant Professor Doten

special requirements for concentration: Satisfactory completion of eight semester courses in geology, of which four are of advanced grade, and of one advanced related course (six semester hours or more) in botany, chemistry, physics, or zoology. A course in some other subject may be approved, to meet particular needs.

- 1-2 INTRODUCTORY GEOLOGY. (3-2) Four bours. 1, 11 The composition, structure, and surface forms of the earth, and the agencies active in their production; a general survey of the earth's history as recorded in the rocks. Lectures, laboratory, field trips, and lantern slides.
- 11 MINERALOGY. (2-2) The crystallographic and physical properties of minerals, and their
- Three hours. 1

English, General Literature, Geology

determination by means of the blowpipe. Lectures and laboratory. Prerequisite: 1-2.

12 ECONOMIC GEOLOGY. (2-2) The characteristics, occurrence, distribution, production, and uses

of the more important mineral resources. Trips to Vermont localities of economic interest. Lectures and laboratory. Prerequisite: 11.

21 ENGINEERING GEOLOGY. (2-2) Three hours. 1 The recognition of common minerals and rocks; rock structures and their effects on engineering problems. Lectures and laboratory. Required of students in Civil Engineering, not open to others.

101 OPTICAL MINERALOGY. (1-4)

Introduction to the study of the optical properties of non-opaque minerals and their determination by means of the polarizing microscope. Lecture and laboratory. Prerequisite: 11.

102 PETROGRAPHY. (1-4)

Classification, origin, and composition of the more important ingeous, sedimentary, and metamorphic rocks, and their identification with the aid of thin sections and the polarizing microscope. Lecture and labororatory.

Prerequisite: 101.

111 STRUCTURAL GEOLOGY. (2-2)

Structural features of the earth's crust produced by earth movements. Emphasis on the mechanics of folding, fracturing, faulting, and rock flowage, and the relation of such structures to mountainbuilding. Lectures and laboratory. Prerequisite: 11.

112 FIELD GEOLOGY. (1-6)

Field methods in the geologic mapping of an assigned area. One conference a week on the problems and progress of the field work; a written report on the area, accompanied by a field map, submitted at the end of the course. Prerequisite: 111.

115-116 PHYSIOGRAPHY. (2-2)

Three hours. 1, 11 The land forms on the surface of the earth and their origins; external and internal forces modifying the earth. The physiographic provinces of North America are emphasized. Lectures and laboratory. (Offered in alternate years, 1952-53.) Prerequisite: 1-2.

Three hours. n

Three hours. 1

Three hours. II

Three hours, I

Three hours. II

GERMAN

Professor Carpenter; Assistant Professors Webster[†], and Wurthmann; Mr. Kabn.

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of eight semester courses in German, including at least four of advanced grade, and at least one advanced related year course, normally in a language.

1-2 ELEMENTARY GERMAN.

For students who present less than two years of entrance German. Pronunciation, oral practice, grammar, and easy reading are stressed during the first semester, the reading of simple narrative material during the second. Credit is allowed only if German 11-12 is also completed. The Staff

11-12 INTERMEDIATE GERMAN.

Intensive and extensive reading of short stories, novels, plays, and some scientific material, with particular emphasis on the acquisition of a basic vocabulary necessary for reading German works in any field. *Prerequisite:* 1-2 or equivalent. *The Staff*

21, 22 COMPOSITION AND CONVERSATION. Three hours. 1, 11 Training in writing and speaking German. Translation into German, free composition, and oral reports are required.

Prerequisite: 11-12 and permission of the department. Mr. Wurthmann

23-24 SCIENTIFIC GERMAN.

A course in the reading of scientific prose which aims not only to build up reading ability in that branch of science in which the student is specializing, but also to acquaint him with the general development of thought and method in his field. After the first four weeks, individual assignments are made along the line of each student's main interest.

Prerequisite: 11-12 and permission of the department. Mr. Kahn

G101-102 INTRODUCTION TO GERMAN LITERATURE. Three hours. 1, 11 Selected works of Goethe, Schiller, and Lessing, and a survey of the development of German literature from the beginnings through the classical period, with practice in hearing, writing, and speaking German. Prerequisite: 11-12. Mr. Carpenter

G105 GOETHE'S FAUST.

Three hours. 1

Three bours. 1, 11

Three hours. I, II

Three hours. 1, 11

Reading in class of Part I and most of Part II; study of sources of the poem and its influence, particularly on English literature; outside read-† On leave, 1951-52.

German, Hebrew

ing of several plays from other literatures, which deal with a similar theme. (Offered in alternate years, 1951-52.) Mr. Carpenter Prerequisite: 101-102.

G106 GERMAN LITERATURE: 1800-1850.

The Romantic Movement and Young Germany. Reading of selected lyrics, short stories, and dramas. (Offered in alternate years, 1951-52.) Mr. Carpenter Prerequisite: 101-102.

G107 GERMAN LITERATURE: 1850-1900.

Reading in class of plays, beginning with dramas of Hebbel, illustrating the development of the realistic trend which burst forth in Naturalism; study of Impressionism and Neo-romanticism; outside reading of typical short stories and novels. (Offered in alternate years, 1952-53.)

Prerequisite: 101-102.

G108 GERMAN LITERATURE: THE 20TH CENTURY. Three hours. II Reading in class of selected works, mainly dramas, exemplifying Expressionism and New Reality; collateral reading of typical short stories. (Offered in alternate years, 1952-53.) and novels. Prerequisite: 101-102. Mr. Carbenter

G121, 122 ADVANCED COMPOSITION AND CONVERSATION. Three hours. 1, 11 Training in the written and oral use of German, with special attention to the acquisition of a correct pronunciation, based on the study of phonetics. Recommended to those preparing to teach German.

Prerequisite: 21, 22 or 101-102, and permission of the department. Mr. Kahn

HEBREW

1-2 ELEMENTARY HEBREW.

Three hours. 1, 11 Reading, pronunciation, elements of grammar and conversation; exercises in composition and translation, designed to prepare the student to understand the Hebrew Scriptures and modern Hebrew literature.

Mr. Kahn

11-12 INTERMEDIATE HEBREW.

Translation, conversation, and reading of texts designed to give some knowledge of the development of Hebrew life, thought, and culture from Biblical times to the present. Prerequisite: 1-2 or equivalent.

Mr. Kahn

Three hours. 1, 11

Mr. Carpenter

Three hours. 1

Three hours. 11

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HISTORY

Professor Evans; Associate Professors Pooley, Putnam and Schultz; Messrs. Cooley and Lane

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of four year courses (twenty-four semester hours) in history, including two of advanced grade, and at least one advanced related course, ordinarily in one of the other social sciences.

1-2 ANCIENT HISTORY. Three hours. 1, 11 A survey of the ancient Greek and Roman worlds. Mr. Lane 5-6 MEDIAEVAL EUROPE. Three hours. I. II The history of Europe from the late Roman Empire to the Renaissance, with particular emphasis on political and cultural developments. Mr. Poolev 11-12 SURVEY OF EUROPEAN HISTORY. Three hours. 1, 11 An introduction to European history, commencing with the rise of the national state and the beginnings of modern economic life. Messrs. Evans and Cooley 21, 22 SURVEY OF AMERICAN HISTORY. Three hours. I, II A general survey of American history from the early national period to the present, for students who intend to take only one course in the subject. Mr. Schultz Prerequisite: sophomore standing; 21 for 22. 111-112 EARLY MODERN HISTORY. Three hours. I. II The Renaissance, the Reformation, and sixteenth century Europe, with special attention to the economic and social history of the period. Prerequisite: one course. Mr. Evans 113, 114 EUROPE IN THE MODERN AGE. Three hours. 1, 11 History of Europe from the seventeenth century to 1914. Prerequisite: one course; 113 for 114. Mr. Cooley 121-122 EARLY AMERICAN HISTORY. Three hours. I, II American history from the discovery through the American Revolu-(Offered in alternate years, 1952-53.) tion. Prerequisite: one course. Mr. Putnam 123-124 LATER AMERICAN HISTORY. Three hours. I. II History of the United States in the Twentieth Century. (Offered in alternate years, 1953-54. Prerequisite: one course. Mr. Putnam

History

G127-128 AMERICAN FRONTIERS. Three hours. 1, 11 The westward movement to the end of the nineteenth century and its influence in shaping American ideals and institutions. (Offered in alternate years, 1952-53.) Mr. Putnam Prerequisite: 121-122, or 123-124. G141-142 FRENCH REVOLUTION AND NAPOLEON. Three hours. I. II French history from 1789 to 1815, with special attention to the impact of French ideas and power upon Europe. Prerequisite: 113, 114 and one other course. Mr. Evans Three hours. 1, 11 G151-152 CONTEMPORARY HISTORY. The world since 1918, stressing the background of current events. Prerequisite: two courses, preferably 113, 114 and 123-124. Mr. Evans Three hours. 1, 11 G155-156 ENGLISH HISTORY. The British role in history since Roman days. (Offered in alternate years, 1952-53.) Prerequisite: one course in European history; English 21-22 or equiva-Mr. Schultz lent; junior standing. G157, 158 AMERICAN STATESMEN. Three hours. 1.11 The thought and practices of leading American politicians. (Offered in alternate years, 1953-54.) Prerequisite: junior standing; for 157, courses in the history of the United States since 1783: 157 for 158. Mr. Schultz G161-162 LATIN AMERICAN HISTORY. Three hours. 1, П The political, social, and economic development since the Spanish Conquest. (Offered in alternate years, 1952-53.) Prerequisite: two courses. Mr. Putnam G165-166 CANADIAN HISTORY. Three hours. 1. 11 Canadian development from the French exploration and settlement to the present with emphasis on the evolution of self-government and relations with the United States. (Offered in alternate years, 1953-54.) Mr. Putnam Prerequisite: two courses. Three hours, I.H G191-192 SEMINAR. Advanced study in a selected field. Open to graduate students

and to seniors by permission. (Offered in alternate years, 1953-54.)

Mr. Putnam

HOME ECONOMICS

Credit for courses listed below is accepted for degrees conferred by this college:

FAMILY LIVING

HOME MANAGEMENT

152 FAMILY LIVING

102 HOME MANAGEMENT

153 CHILD CARE AND DEVELOPMENT

Other courses may be taken by students without credit toward degrees conferred by this college. For descriptions, refer to HOME ECONOMICS in the section listing courses offered by the College of Agriculture.

MATHEMATICS

For courses in MATHEMATICS, see the College of Technology.

*MUSIC

Professor Bennett; Associate Professor Pappoutsakis; Assistant Professors Kinsey, Marston and Start; Mr. Weinrich

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of 1, 2, 7-8, and two of the following: 101-102, 105-106, 107-108, and 121, 122. It is recommended that the related course be Aesthetics (Psychology 113-114) or an advanced course in French or German.

HISTORY AND THEORY OF MUSIC

1, 2 SURVEY OF MUSICAL LITERATURE. Three hours. 1, 11 Orchestral, chamber, choral, and operatic music for concert and radio listeners. No previous technical knowledge is required. 1 From Palestrina to Beethoven.

2 From Schubert to Stravinsky.

Mr. Bennett

5-6 ELEMENTARY SIGHT-SINGING, EAR-TRAINING, AND THEORY.

Three hours. 1, 11

Recommended to precede or accompany 7-8, but may be taken separately. Mr. Pappoutsakis

7-8 ELEMENTARY HARMONY.

Structure and use of chords; harmonization of melodies in various styles; simple original composition.

Prerequisite: familiarity with scales and keys, and ability to read simple music at the piano. Mr. Kinsey

* For the curriculum in Music Education, see the index.

Three hours. 1, п

Home Economics, Music

11-12 ADVANCED SIGHT-SINGING, EAR-TRAINING, AND THEORY.

Recommended to precede or accompany 101-102 or 105-106, but may be taken separately. Mr. Pappoutsakis Prerequisite: 5-6.

G101-102 ADVANCED HARMONY AND HARMONIC ANALYSIS. Three hours. 1, 11 Prerequisite: 7-8. Mr. Kinsey

G105-106 COUNTERPOINT. Prerequisite: 7-8.

G107-108 ORCHESTRATION AND CONDUCTING. Three hours. I. II The characteristics of instruments; arranging for orchestra; technique of the baton; elementary instrumental technique. (Offered in alternate years, 1952-53.)

Prerequisite: 7-8; 101-102 is also desirable.

G109-110 ADVANCED ORCHESTRATION.

Arranging for full orchestra, including a study of the less frequently used instruments. This course presupposes a knowledge of the range, transposition, and characteristics of the usual orchestral instruments, and the ability to arrange music of moderate difficulty for strings, woodwind, and brass. (Offered in alternate years, 1953-54.) Mr. Pappoutsakis Prerequisite: 107-108.

121, 122 HISTORY OF MUSIC.

Three hours. 1, 11 Changes in musical structure and style, and their relation to contemporaneous artistic, literary, religious, and social movements.

121 The Renaissance, Bach, Mozart.

122 Beethoven, romanticism, Brahms, the twentieth century.

Prerequisite: 1, 2; junior standing.

MUSIC EDUCATION

31, 32 ELEMENTARY SCHOOL METHODS AND PRACTICE TEACHING. Three hours. 1, 11 The teaching of music in the primary and grammar grades. Observation and practice teaching in the schools of Burlington or vicinity.

(Offered in alternate years, 1953-54.)

Prerequisite: 1, 2; credit or enrollment in 5-6.

G151, 152 SECONDARY SCHOOL METHODS AND PRACTICE TEACHING.

Three hours. I. II The administration and content of required and elective high school

Mr. Bennett

Three hours. 1, 11

Mr. Bennett

Three hours. 1, 11

Mr. Pappoutsakis

Three hours. 1, 11

55

music courses. Observation and practice teaching in the schools of Burlington or vicinity. (Offered in alternate years, 1952-53.)

151 Junior high school music.

152 Senior high school music.

Prerequisite: credit or enrollment in 1, 2 and 5-6.

G155-156 APPLIED MUSIC METHODS.

Miss Marston One hour. 1, 11

Methods of teaching piano, organ, voice, or violin. Prerequisite: three years' instruction in chosen instrument at the University, or equivalent. Miss Marston, Mr. Weinrich and Mrs. Start

For SCHOOL MUSIC, see Elementary Education 11-12 and 13-14.

APPLIED MUSIC

41, 42 CHOIR.

*One hour. 1, 11

Study of works by Bach, Handel, Palestrina, modern Russian composers and others. Weekly services; Christmas, Lenten-Easter, and other concerts; annual opera; Baccalaureate service. Three hours of rehearsal weekly, if taken for credit.

Mr. Bennett, director; Miss Marston, organist

43, 44 ORCHESTRA.

*One hour. 1, 11

Study of symphonic and other instrumental literature. The orchestra plays at concerts and the opera, alone and with the choir, and at Commencement. Three hours of rehearsals weekly.

Mr. Pappoutsakis, conductor

47, 48 PIANO.

*One or two hours. I, II

Adapted to the student's purposes and needs; may include repertoire, technic, improvising accompaniments to melodies, and sight-reading.

Miss Marston and Mr. Kinsey

49, 50 ORGAN.

*One or two hours. 1, 11

Preparation for recital and church service playing, including hymns and accompaniments. Miss Marston

53, 54 VOICE.

*One or two hours. 1, 11

Instruction in accepted natural vocal production; repertoire (in the course of four years) of old Italian songs, German lieder, modern French songs, oratorio and operatic arias. Mr. Weinrich

* All courses in applied music may be taken for several years, but no student may receive credit toward graduation totalling more than six semester hours in choir or orchestra or both together. One hour of credit per semester will be given for one private lesson in piano, organ, voice, or violin under a member of the department, and five hours practice per week, on condition that the instruction be accompanied or preceded by either Music 1, 2 or 7-8; two hours credit will be given for two private lessons and ten hours practice per week, on the same condition.

For the fees for instruction and use of organ, see the Index under "Fees."

Music, Philosophy and Religion

55, 56 VIOLIN.

*One or two hours. 1.11 Study of fundamental technic and tone production, preparing for orchestral, chamber music and solo performance. For those qualified, advanced study of artist repertoire. Mrs. Start

PHILOSOPHY AND RELIGION

Professor Dykhuizen; Assistant Professors Hall and Feuer

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of Philosophy 1, 2, 4, 107, 108, 114, and either 103 or 105, and an advanced related course or courses, chosen in consultation with the departmental advisor to fit the needs of the individual student.

PHILOSOPHY

1 INTRODUCTION TO PHILOSOPHY.

A presentation of the chief problems of philosophy.

Messrs. Dykhuizen and Feuer Prerequisite: sophomore standing.

2 LOGIC.

The principles and conditions of correct thinking with emphasis on the detection of fallacies of thought. Mr. Feuer

Prerequisite: sophomore standing.

4 ETHICS.

Three hours. II

Three hours. 1

Three hours, 11

An examination of the ideas underlying man's moral behavior. The aim is to develop an acceptable and coherent theory of conduct. Prerequisite: sophomore standing. Mr. Dykhuizen

20 SOCIAL PHILOSOPHY OF AMERICAN AGRICULTURE. Three hours. 1 European backgrounds; the history of American thought regarding agriculture in this country; the more important agricultural problems of today in the light of American democratic thought. Normally open for credit only to students in Agriculture.

Prerequisite: senior standing.

G103 METAPHYSICS.

Basic philosophical problems concerning knowledge, value, and reality. Prerequisite: 1; junior standing. (Offered alternate years, 1953-54.)

G105 SOCIAL PHILOSOPHY.

The meanings and values inherent in social life. (Offered in alternate years, 1952-53.)

Prerequisite: 1 or 4; junior standing.

* See footnote on page 56.

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Mr. Dykhuizen

Three hours. 1

Mr. Feuer

Three hours. 1

Mr. Feuer

Three hours. 1, 11 G107, 108 HISTORY OF PHILOSOPHY. 107 Ancient and Medieval philosophy. 108 Modern philosophy. Mr. Dykhuizen Prerequisite: 1; junior standing.

G109 HISTORY OF AMERICAN PHILOSOPHY. Three hours. I The thought of leading American philosophers from colonial times to the present. Mr. Feuer Prerequisite: 1; junior standing.

G114 INTELLECTUAL BACKGROUND OF MODERN LIFE. Three hours. II Intellectual movements which have influenced the thought and life of today.

Prerequisite: senior standing or consent of the instructor.

Mr. Dykhuizen

For AESTHETICS, see Psychology G113-114.

For ECONOMIC PHILOSOPHY, see Economics, G195 and G196. For POLITICAL PHILOSOPHY, see Political Science, G193, G194.

RELIGION

1-2 HISTORY OF RELIGION. Three hours. 1, 11 Religion from early primitive forms to the great world religions of the present. Study of the living religions of today with most emphasis given to Hinduism, Buddhism, Confucianism, Shinto, Judaism, Islam, and Christianity. Mr. Hall

Prerequisite: sophomore standing.

Three hours. 1, 11 11-12 OLD AND NEW TESTAMENT. A critical study of the Jewish-Christian tradition. It includes much reading in the scripture as well as in background material. Mr. Hall Prerequisite: sophomore standing.

SOCIOLOGY

Three hours. I. п 1-2 INTRODUCTORY SOCIOLOGY. The basic features of group behavior; sociological concepts, social organization, and social interaction.

Prerequisite: sophomore standing.

G102 SOCIAL PROBLEMS.

A descriptive analysis of particular social problems. Prerequisite: Philosophy 4 or Psychology 1-2 or Sociology 1-2; junior Mr. Feuer standing.

Mr. Feuer Three hours. II

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Philosophy, Physics

PHYSICS

Professors Holmes and Walbridge; Assistant Professors Rooney and Woodward: Mr. Crocker

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of three advanced courses in physics and Mathematics 111, 112. Additional advanced courses in physics, mathematics, and chemistry are recommended.

1-2 INTRODUCTORY PHYSICS. (2-2) Three hours. I, н An introductory course for students not concentrating in a science. Subjects included are mechanics, heat, sound, light, electricity, and magnetism. Demonstration lectures, presenting experimental facts and theoretical conclusions, are closely coordinated with laboratory work. Prerequisite: one year each of secondary school algebra and geometry.

The Staff

11-12 GENERAL PHYSICS. (3-4)

For students concentrating in a science. The first semester deals with mechanics and heat, the second with sound, light, electricity and magnetism, and atomic physics. Experimental facts and theoretical principles are presented, with special attention to the scientific method employed and emphasis on training in simple reasoning. Laboratory and class work are closely coordinated.

Prerequisite: Mathematics 1, 2 or 11.

G111, 112 MECHANICS AND WAVE MOTION. (3-0) Three hours. I, II Continuation and developments of the principles and methods of mechanics with emphasis on the integration of fundamental physical principles with mathematics and with the extension of these principles to waive motions. (Offered in alternate years, 1952-53.)

111 Forces and other vector quantities. Work and energy.

112 The dynamics of rigid bodies, wave motion and introduction to wave mechanics. Prerequisite: 11; Mathematics 111, taken concurrently. Mr. Walbridge

Three hours. I. II G121, 122 HEAT AND THERMODYNAMICS. Experimental facts and theoretical principles of heat. (Offered in alternate years, 1952-53.)

121 Thermometry, expansion, specific heat and gas laws. (2-2) 122 Thermal conduction and thermodynamics (3-0). The basic theory of the conduction of heat and the relation between work and heat; various thermodynamical cycles and the thermodynamics of radiation.

Prerequisite: 11 and Calculus for 121; 121 and Mathematics 111 for Mr. Woodward 122.

Three hours. 1, 11 G141, 142 ELECTRICITY AND MAGNETISM. (2-2) The fundamental principles; magnetic and electric field strengths and potentials. Resistance and energy relations in direct current cir-

Five bours. 1, 11

The Staff

cuits; capacitance and inductance; applications to transient phenomena; alternating currents.

141 Basic principles of magnetism and electrostatics, resistance and energy relations. 142 Capacitance; inductance and alternating currents.

Prerequisites: 12 and Calculus for 141; 141 for 142. Mr. Holmes

G161, 162 OPTICS AND SPECTROSCOPY. (2-2) Three bours. I, II A geometrical theory of reflection and refraction, mirrors and lenses; the wave properties of light, interference and diffraction, polarized light; the spectra of various elements and their part in the development of theories of atomic structure. (Offered in alternate years, 1953-54.)

161 The centered optical system.

162 Physical optics and spectroscopy.

Prerequisite: 12 for 161; 161 and Calculus for 162. Mr. Woodward

G171, 172 ELECTRON AND ATOMIC PHYSICS. (2-2) Three hours. I, II The behavior of individual electrons and of aggregates of electrons; phenomena associated with motions of electrons in magnetic fields; photoelectric effect and thermionic emission; vacuum tube characteristics and applications; radioactivity and nuclear physics.

171 Fundamental electronics and thermionic emission.

172 Vacuum tube circuits: ionization; radioactivity and cosmic rays.

Prerequisite: 12 and Calculus for 171; 171 for 172.

Messrs. Holmes and Rooney

G173, 174 ADVANCED ELECTRON AND ATOMIC PHYSICS. (3-0)

Three hours. 1, 11

Mr. Walbridge

Further consideration of some of the subject matter of G171, 172 with special attention to more advanced mathematical theory.

173 Free electrons and electromagnetic radiations

174 Special relativity; quantum theory; nuclear physics.

Prerequisites: 172 and Mathematics 111.

181-182 EXPERIMENTAL PHYSICS. (0-6) Three hours. 1, II Students concentrating in Physics may, with the approval of a member of the staff, select a subject and work without the detailed guidance necessary in the usual type of laboratory work. The course is a step between ordinary undergraduate laboratory work and elementary research. It will involve both theoretical and experimental work. The student will do independent study with frequent consultations with the instructor.

Prerequisite: two advanced year courses.

G201-202 SEMINAR.

Members of the staff and graduate students meet once a week to

One hour. 1, 11

The Staff

Physics, Political Science

study contemporary advances in Physics and for reports on research being done in the department. The Staff

G211-212 RESEARCH.

Nine to twelve hours. 1, 11 For students seeking a Master of Science degree in Physics. A problem is selected in consultation with a member of the staff.

Prerequisite: nine semester courses in the 100 group and either advanced calculus or differential equations. The Staff

POLITICAL SCIENCE

Professors Nuquist and Carroll; Assistant Professors Babcock, Haugent and Little; Messrs. Eastman, Robinson and Steele.

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of four semesters of advanced courses in political science and an advanced course (six or more semester hours) ordinarily in one of the other social sciences.

1, 2 AMERICAN GOVERNMENT. 1 The federal government.	I Mee Dours. 1, 1
2 State governments.	The Staff
 51, 52 INTERNATIONAL RELATIONS. 51 Development and principles of international politics. 52 International organization. 	Three hours. 1, 11
Prerequisite: sophomore standing; 51 for 52.	Mr. Little
61, 62 LOCAL GOVERNMENT. 61 Rural government. 62 Municipal government.	Three hours. 1, 11
Prerequisite: sophomore standing.	Mr. Nuquist
71, 72 COMPARATIVE GOVERNMENT. 71 Governments of the British Commonwealth of Nations. 72 Governments of Continental Europe.	Three hours. 1, 11
Prerequisite: sophomore standing.	Mr. Robinson
76 GOVERNMENTS OF THE FAR EAST. (Not offered 1952-53.)	Three hours.
77 GOVERNMENTS OF LATIN AMERICA. (Not offered 1952-53.)	Three hours.
G151 FOREIGN POLICY OF THE UNITED STATES. Nature and conduct of American foreign policy.	Three hours. 1
Prerequisite: any course except 1, 2.	Mr. Little
† On leave, 1951-52.	

Thurso hours

G153-154 WORLD POLITICS. An analysis of the foreign policies of countries States, with emphasis on selected problems in Eu and the Pacific Area. <i>Prerequisite:</i> 51, 52.	
G156 INTERNATIONAL LAW.	Three hours. II
Principles and applications of public internation	
Prerequisite: \$1, \$2.	Mr. Little
G163 STATE GOVERNMENT.	Three hours. 1
Organization and administration of state gove	rnment.
Prerequisite: 1, 2, and one other course.	Mr. Babcock
G173, 174 CONSTITUTIONAL LAW. 173 Nature of the American constitutional system. 174 Organization and power of Congress.	Three hours. 1, 11
Prerequisite: 1, 2, and either one other course of junior standing.	r Economics 11, 12; Mr. Carroll
G177, 178 INTERGOVERNMENTAL RELATIONS. The interrelations of national, state, and local United States, including a study of special district tion, and administrative controls accompanying gi	s, interstate coopera-
177 Modern problems of the federal system. 178 Joint administration of public functions. Prerequisite: 1, 2 and either one other course or	
177 or 183 for 178.	
G183-184 PUBLIC ADMINISTRATION. 183 Organization and function of public administration. 184 Procedure of administrative agencies.	Three hours. 1, 11
Prerequisite: 1, 2 and one other course.	Mr. Nuquist
G186 ADMINISTRATIVE LAW. (Not offered 1952-53.)	Three hours. 11
Prerequisite: 1, 2, and one other course.	Mr. Nuquist
G193, 194 POLITICAL THEORY.	Three hours. 1, 11
193 Development of political theory. 194 Recent political theory.	1 1/100 100013. 1, 11
Prerequisite: two courses.	Mr. Robinson
G196 POPULAR GOVERNMENT. Problems of popular government, both nationa throughout the world, including electoral proc types of government, legislative organization, branches of government, and trend toward centraliz	edures, non-voting, relation between
Prerequisite: two semesters of advanced work in p	olitical science.
-	Mr. Carroll

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PSYCHOLOGY

Professor Metcalf; Associate Professors Ansbacher and Chaplin; Assistant Professor Murdock; Miss Dugan

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of at least twelve semester courses, eight in psychology, including 1-2, 104, and 107, and the other four either in zoology or in philosophy. Zoology 1 and 4, in the freshman year if possible, are strongly recommended.

1-2 GENERAL PSYCHOLOGY.

An introduction to the entire field, emphasizing the normal adult human being. The Staff

Prerequisite: sophomore standing.

G101 SOCIAL PSYCHOLOGY.

The social factors in personality and the psychological aspects of social relations, groups, institutions, and culture. Mr. Ansbacher Prerequisite: 1-2.

Three hours. 11 G102 PHYSIOLOGICAL PSYCHOLOGY. (2-2) Relationships between the psychological processes and the functions of the nervous system and endocrine glands. Mr. Chaplin Prerequisite: 1-2.

G103 APPLIED PSYCHOLOGY.

Applications of psychological methods to problems of personnel selection, vocational guidance, efficiency of work, influencing others, crime and delinquency, accidents. Training in opinion surveys. Prerequisite: 1-2.

Mr. Murdock

Three hours. п

Three hours. 1

Three hours. I. II

Three hours. 1

G104 STATISTICAL METHODS IN PSYCHOLOGY. Three hours. n Tabular and graphic representation of psychological data; measures of central tendency and variability; functions and applications of the normal probability curve; sampling and reliability; testing of experimental hypotheses; and correlation techniques. Prerequisite: 1-2; Math. 1 or the equivalent. Mr. Ansbacher

G105 CHILD PSYCHOLOGY.

Three bours. 1 The development of the human mind from birth to maturity. Prerequisite: 1-2. Mr. Chaplin

G106 CHARACTER AND PERSONALITY.

A survey of methods used and results obtained in the analytical study of the nature and development of the mature individual. Prerequisite: 1-2. Mr. Murdock

7 SYSTEMATIC PSYCHOLOGY. Three hours. I A comparative study of the leading contemporary schools of psy- hological thought. rerequisite: 1-2. Mr. Metcalf
8 ABNORMAL PSYCHOLOGY. Three hours. II The more unusual mental processes, the methods of observing and atterpreting them, and their bearing on our understanding of the normal ind. <i>mereguisite:</i> 1-2. Mr. Metcalf
9-110 TESTS AND MEASUREMENTS. Three hours. 1, 11 Individual training in the fundamental concepts of psychological measurement, the administration of tests, and the interpretation of sults. rerequisite: 104. Mr. Ansbacher
1-112 EXPERIMENTAL PSYCHOLOGY. (1-4) Three hours. I, II The student performs experiments designed to develop skill in sychological methods of procedure and thought. rerequisite: 104. Mr. Chaplin
3-114 AESTHETICS. Three bours. 1, 11 The mental processes involved in the response to the beautiful in art and nature. The rerequisite: 1-2. Mr. Metcalf

The College of Arts and Sciences

Professors Daggett and DeForest; Associate Professors Doane and Johnston; Assistant Professors Roberts, Towne, and Willard[†]; Messrs. Ashley and Grow, Miss DiRubbo and Mrs. Doane

SPECIAL REQUIREMENTS FOR CONCENTRATION IN FRENCH OR SPANISH: Satisfactory completion of six semester courses of advanced grade, and at least one advanced course (six semester hours or more), ordinarily in another foreign language or English.

FRENCH

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1-2 ELEMENTARY FRENCH.

Grammar, pronunciation, composition, translation, dictations, and use of the spoken language, for beginners and those who present less than two years of preparatory French. Credit is given only if Intermediate French is also completed. Mr. Roberts and others

Three hours. 1, 11

† On leave, 1951-52.

Psychology, Romance Languages

11-12 INTERMEDIATE FRENCH.

Grammar, composition, translation, and conversation. The class work is conducted, as much as possible, in French.

Prerequisite: 1-2 or two years of preparatory French.

Miss DiRubbo and others

Three bours. I. II

G101-102 INTRODUCTION TO FRENCH LITERATURE. Three hours. 1, 11 Recitations, lectures, outside reading and reports. Selected texts of outstanding French authors from medieval times to the present are the basis of study.

Messrs. Daggett, DeForest and Roberts Prerequisite: 11-12.

G107-108 FRENCH LITERATURE: 19TH CENTURY. Three hours. 1, 11 Recitations, lectures, outside reading, and reports. A careful study of the outstanding authors of the romantic, realistic, and naturalistic schools.

Prerequisite: 101-102.

G111 FRENCH LITERATURE: 18TH CENTURY.

Selected readings, lectures on the main currents of the literature of the century with emphasis on Montesquieu, Diderot, Voltaire, and Rousseau. Lesage, Marivaux, and Beaumarchais will be studied in the drama. (Offered in alternate years, 1953-54.) Prerequisite: 101-102. Mr. Johnston

G112 FRENCH LITERATURE: 20TH CENTURY. Three hours. 11 Readings, reports, lectures on the principal literary movements in the period of 1900 to the present. A careful study of selected works of the outstanding authors of the century. (Offered in alternate years, 1953-54.) Mr. Johnston

Prerequisite: 101-102.

G113-114 FRENCH LITERATURE: 17TH CENTURY, Three hours. 1, 11 Lectures, recitations, outside reading, and reports. The influence of society, the Academy, and the Church on the literature of the period is emphasized. (Offered in alternate years, 1952-53.) Prerequisite: 101-102. Mr. Daggett

G121-122 CONVERSATION AND COMPOSITION. Three hours. 1.11 Composition, conversation, and phonetics. Required of those who wish to be recommended to teach French.

Prerequisite: good standing in 11-12. Messrs. Doane and Johnston

G201-202 GRADUATE COURSES.

Three hours. 1, 11 Courses are offered for resident candidates for the Master of Arts degree, and further opportunities for independent work are provided.

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Mr. Daggett

Three hours. 1

The College of Arts and Sciences

Grammar, composition, translation, and practice in the spoken

ITALIAN

language for beginners. Prerequisite: permission of the department. Mr. Johnston Three hours. 1, 11 11-12 INTERMEDIATE ITALIAN. Grammar, composition, translation, and conversation. Prerequiste: Italian 1-2 or its equivalent. Mr. Johnston SPANISH 1-2 ELEMENTARY SPANISH. Three hours. 1, 11 Grammar, composition, and translation for beginners, with frequent practice in pronunciation and use of the spoken language. Credit is given only if Intermediate Spanish is also completed. Mr. Doane and others Three hours. I. II 11-12 INTERMEDIATE SPANISH.

Readings from selected authors. Composition, grammar, and practice in conversation. Spoken Spanish is used to a considerable extent in class.

Prerequisite: 1-2 or two years of preparatory Spanish.

Mr. Towne and others

G101-102 INTRODUCTION TO SPANISH LITERATURE. Three hours. I, II A survey of Spanish literature. Selected texts, lectures, and reports. Prerequisite: 11-12. Mr. Towne

Three hours. 1, п G105-106 SPANISH-AMERICAN LITERATURE. The evolution of Latin-American thought as reflected in the literatures of the various Spanish-speaking countries from the 15th century to the present. (Not offered 1952-53.) Prerequisite: permission of the department.

G107 SPANISH LITERATURE: 19TH CENTURY. Three hours. 1 The principal literary currents of the 19th century, from Romanticism up to the generation of 1898. Representative readings from the poetry, drama, and novel of the period. (Offered in alternate years, 1953-54.) Miss DiRubbo

Prerequisite: 101-102.

G108 SPANISH LITERATURE: 20TH CENTURY. Three hours. п The origins and main aspects of the intellectual conflicts in modern Spain, as reflected in the literary works from the generation of 1898 to

the present. (Offered in alternate years, 1953-54.) Prerequisite: 107.

Miss DiRubbo

66

Three hours. 1, 11

1-2 ELEMENTARY ITALIAN.

Romance Languages, Speech

G113-114 SPANISH LITERATURE: GOLDEN AGE. Selected readings from the novel, poetry, dra centuries with special attention to Cervant (Offered in alternate years, 1952-53.)	ma of the 16th and 17th
Prerequisite: 101-102.	Mr. Willard
G121-122 CONVERSATION AND COMPOSITION. Composition, conversation, and phonetics. wish to be recommended to teach Spanish.	Three hours. 1, 11 Required of those who
Prerequisite: good standing in 11-12.	Miss DiRubbo
G201-202 GRADUATE COURSES. Courses are offered for resident candidates degree and further opportunities for independe	
RUSSIAN	
1-2 ELEMENTARY RUSSIAN. Grammar, translation, extensive practice in language for beginners.	Three hours. 1, 11 the spoken and written
Prerequisite: sophomore standing.	Mr. Lane
11-12 INTERMEDIATE RUSSIAN. Systematic grammar review, composition, Readings from Pushkin, Lermontov, Gogol, T Prerequisite: 1-2, or its equivalent.	<i>Three hours</i> . 1, 11 extensive oral practice. Folstoy, and others. Mr. Cook
SOCIOLOGY	
	6 ml 11 1 1

For courses in SOCIOLOGY, see the Department of Philosophy and Religion.

SPEECH

Professor Huber; Associate Professor Luse; Messrs. Harper, Humphrey and Roloff, Mrs. Dame

1 BASIC SPEECH.

The elements of speech and their practical application to the individual speaking voice. Exercises for developing better communication through vocal and bodily control. The Staff

3 PARLIAMENTARY PROCEDURE.

Study and practice in the fundamentals of conducting a meeting. The class meets twice a week with one hour of outside preparation. *Prerequisite:* sophomore standing. *Mr. Huber*

67

Three hours. 1, 11

One hour. 1

The College of Arts and Sciences

11 PUBLIC SPEAKING.

68

Preliminary analysis, gathering material, organization and delivery of public speeches with special attention on the use of visual aids and the speech to inform. Two-thirds of the time is devoted to student performance. The Staff

12 ARGUMENTATION.

Inductive, deductive, and causal reasoning as applied to the speaking situation; designed to develop through performance skill in logical expression of thought.

Prerequisite: 11; sophomore standing.

14 GROUP DISCUSSION.

The basic methods of procedure in committees, round table discussions, lecture forums, symposiums, panels, and other types of discussion; designed to develop through performance skill in the thought processes involved in discussion leadership. (Offered in alternate years, 1953-54.)

Prerequisite: 11; sophomore standing.

31 ORAL INTERPRETATION OF LITERATURE.

Study and oral interpretation of prose and poetry; techniques of analysis and presentation. At least two-thirds of the time is devoted to student presentation.

Prerequisite: 1.

71 VOICE SCIENCE.

The physical, anatomical, physiological, and phonetic factors of speech. (Offered in alternate years, 1952-53.) Prerequisite: 1; sophomore standing.

74 INTRODUCTION TO SPEECH CORRECTION.

A basic course in the causes, symptoms, and treatment of speech disorders. (Offered in alternate years, 1952-53.)

Prerequisite: 1; sophomore standing.

111 PERSUASION.

Human motivation, attitudes and how to change them, emotion, stereotypes, attention, and audience psychology; training in their use through student performance. (Offered in alternate years, 1952-53.) Prerequisite: six hours, including 11. Mr. Huber

116 SPEECH COMPOSITION.

A study of speech style by analysis of great speeches and by writing longer speeches, intended primarily for those who expect to use public speaking as a basic tool in their careers. (Offered in alternate years, 1952-53.)

Prerequisite: six hours, including 11.

Mr. Huber

Three hours. II

Three hours. 1. 11

Three hours. 1, 11

Three hours. 1, 11

Mr. Huber

Mr. Humpbrey

Three hours. 1

Three hours. II

Miss Luse

Miss Luse

Three hours. 1

Three hours. II

Mr. Huber

Speech, World Problems

133 ACTING AND DIRECTING.

Introduction to techniques of directing and acting; problems in play analysis, character analysis, and presentation; participation in improvisations and one-act plays as actor and director. Emphsis on group analysis and presentation. (Offered in alternate years, 1953-54.) Mr. Humphrey. Prerequisite: 31.

140 PLAY PRODUCTION.

Sources of materials, play selection, casting and rehearsing, production organization. For prospective directors of plays, operettas, and festivals in schools, colleges, and community groups. (Offered in alternate years, 1953-54.) Prerequisite: 133.

161 ELEMENTS OF RADIO BROADCASTING.

An analysis of radio as a medium of mass communication; its history, structure, programs, and personnel; its psychological, sociological, and educational impact upon contemporary life. (Offered in alternate years, 1952-53.) Mrs. Dame

Prerequisite: six hours of Speech.

162 WRITING FOR RADIO.

Analysis of the special problems of writing for the medium of radio; the writing of news, general continuity, dramatic scripts, and television programs. (Offered in alternate years, 1952-53.) Prerequisite: 161.

171, 172 SPEECH CORRECTION.

The etiology, symptoms, and treatment of voice and articulatory disorders; the problems of stuttering and organic disorders of speech. (Offered in alternate years, 1953-54.) Prerequisite: 71 and 74; 171 for 172. Miss Luse

WORLD PROBLEMS

101, 102 WORLD PROBLEMS.

A brief but intensive survey of the problems arising in about a dozen major fields which are likely to affect the personal and public careers of all students in their lifetimes; given by instructors from the various colleges to acquaint students with the issues and the methods of handling them in the humanities, the sciences, and the applied arts. This course does not count toward concentration requirements.

Prerequisite: Senior standing, or permission of the director. Mr. Babcock and others

Three hours. 1

Mr. Humphrey

Three hours. II

Three hours. 1

Three hours. 11

Mrs. Dame

Three hours. I. II

Three hours. 1, 11

The College of Arts and Sciences

ZOOLOGY

Professors Moody and Lochhead; Associate Professor Rowell; Assistant Professors Bond and Werner; Miss Watson, Mr. Potash

SPECIAL REQUIREMENTS FOR CONCENTRATION: Satisfactory completion of at least one semester of elementary botany, of Zoology 1, 4, 110, G191, G192, and of an additional five semester courses in zoology, at least eight semester hours being in advanced courses. The advanced related course (six semester hours or more) may be in botany, chemistry, geology, physics, or psychology.

1 INTRODUCTION TO ZOOLOGY. (2-4)

An examination of the structure and function of selected animal forms designed to give the general student a greater appreciation of the world of animals and man, and the science student a background for further study in zoology. Lectures, laboratory. Mr. Rowell and Staff

4 VERTEBRATE ZOOLOGY. (2-4)

Survey of Phylum Chordata; structure and biology of vertebrate animals; dissection of typical submammalian vertebrates. Lectures, laboratory.

Prerequisite: 1.

6 PRINCIPLES OF EVOLUTION. (3-2)

Survey of biological principles connected with the development of life on the earth; evidences that evolution occurs; history of animal and human evolution; means by which evolution occurs. Lectures, laboratory.

Prerequisite: 1.

21 ORGANIC EVOLUTION. (3-0)

A course for students interested in biology's greatest generalization: the theory of evolution. Evidence of occurrence of organic evolution; history of animal life on the earth; evolution of man; principles of evolutionary change. A student may not receive credit for both 6 and 21.

Prerequisite: sophomore standing.

31 GENERAL ENTOMOLOGY. (2-4) Introduction to the study of insects, with emphasis on morphology, physiology, and evolution. Lectures, laboratory. Prerequisite: 1.

52 PHYSIOLOGY. (3-0)

Introduction to some chemical and mechanical fundamentals of animal physiology, with special reference to man.

Prerequisite: 1, junior standing; some knowledge of chemistry. Mr. Lochhead

Mr. Bond and Staff

Mr. Moody and Staff

Four bours. n

Four bours. 1

Four bours. II

Mr. Mood γ

Four hours, 1

Three bours. 1

Mr. Werner

Three hours, 11

. 70

Zoology

101 COMPARATIVE ANATOMY. (2-4) Four bours. 1 Study of the evolution of the organ systems of vertebrates, accompanied by the dissection of a mammal. Lectures, laboratory. Mr. Bond Prerequisite: 4. Four bours. n 102 PRIMATE ANATOMY. (0-8) Detailed dissection of the monkey. Laboratory. Mr. Bond Prerequisite: 101. Four bours. 1 105 COMPARATIVE HISTOLOGY. (2-4) Microscopic anatomy of selected invertebrate and vertebrate animals. Basic tissue similarities and specializations in relation to function. Lectures, laboratory. Prerequisite: 101; 106 or Botany 112. Mr. Rowell 106 VERTEBRATE EMBRYOLOGY. (2-4) Four bours. II General principles of development of an ovum; comparisons of early organogenesis in frog, chick, and mammal. Lectures, laboratory. Prerequisite: 4, junior standing. Mr. Rowell Four hours. 11 108 INSECT ECOLOGY. (2-4) Relationship between insects and their environment, with emphasis on those of agricultural and medical importance. Lectures, laboratory, reports, field work. Mr. Werner Prerequisite: 31. 110 INVERTEBRATE ZOOLOGY. (2-4) Four bours. 11 The anatomy, physiology, and life histories of selected representatives of the more important invertebrate phyla. Lectures, laboratory. Required of all students concentrating in zoology. Mr. Lochhead Prerequisite: 1, and 4 or 31. Three hours. 1 G115 HEREDITY. (3-0) Principles of inheritance and their physical basis. (No student may receive credit both for this course and for Botany 101.) Prerequisite: junior standing and four semesters of courses selected from Mr. Moody botany, psychology, and zoology. G116 HUMAN GENETICS. (3-0) Three hours. II Principles of human inheritance; population genetics; interaction of heredity and environment; application of principles of heredity to human problems on both individual and social levels. Prerequisite: 115 or Botany 101. Mr. Moody G120 MODERN EVOLUTIONARY THEORY. (3-0) Three hours. п Contributions of modern research in genetics, systematics, distribution, experimental embryology, serology, and related fields to problems of the means and methods of evolutionary change.

Prerequisite: a course in evolution and one in heredity or genetics. Mr. Moody

G191, 192 SEMINAR. (1-0)

Review and discussion of current zoological research. Required of graduate students and seniors concentrating in zoology; open to others by special permission only. The Staff

One hour. 1, 11

Credit as arranged

Credit as arranged

G201, 202 ADVANCED READINGS.

Readings, with conferences, to serve two objectives for graduate students: (1) to provide those working for the M.S. degree with background for, and specialized knowledge relating to, their research; (2) to provide those working for M.A. in Teaching and M.Ed. degrees with advanced study in phases of zoology in which formal courses are not available.

Prerequisite: graduate standing; an undergraduate major in Zoology.

G203, 204 RESEARCH.

Original investigation intended to culminate in a Master's thesis. Required of graduate students in zoology working for M.S.; not open to others.

The College of Technology

The College of Technology includes the Departments of Chemistry, Economics, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Mathematics and Mechanics. It offers a number of specialized professional curricula in these fields and in Medical Technology, leading to the degree of Bachelor of Science in the field of specialization. Details are given in the sections immediately following.

THE CHEMISTRY CURRICULUM

The Department of Chemistry offers a specialized curriculum leading to the professional degree of Bachelor of Science in Chemistry. This curriculum is designed to give a sound basic training in Chemistry, to prepare the student for service in some branch of the chemical profession, and to qualify him adequately for advanced study in graduate school.

The department is accredited by the Committee for Professional Training of the American Chemical Society, which has established minimum requirements for the training of chemists at the bachelor's level. In accepting accreditation, the department has planned a curriculum which permits the student to reach these minimum objectives and will qualify the graduate for certification.

Those who wish a less intensive training in chemistry may take the Liberal Arts curriculum with a concentration in chemistry and receive the Bachelor of Arts degree. These students may also qualify for accreditation by satisfactorily completing certain courses beyond the minimum required for concentration, and only those who so qualify will be recommended as chemists by the department. A student can elect to concentrate in chemistry at the end of the freshman year or even as late as the end of the sophomore year and still qualify for accreditation. However, the department strongly recommends that the student choose before the start of his sophomore year. It will be glad to offer advice to any student interested in concentrating in chemistry.

In the first year, and to some degree in the second year, prescribed courses are such that a student can transfer into the curriculum from Liberal Arts, or vice versa. Below are listed the courses of study included in the Chemistry Curriculum:

FIRST YEAR	1st 2nd semester	SECOND YEAR	1st 2nd semester
General Chemistry *English Composition Algebra, Trig., Anal. Geom. Elementary German Hygiene (Women) Military Science (Men) Physical Education	3 3 5 5 3 3 (1) (1) 2 2	Quantitative Analysis Sophomore English Calculus Intermediate German General Physics Military Science (men) Physical Education	3 3 3 3 5 5 2 2
THIRD YEAR	1st 2nd semester	FOURTH YEAR	1st 2nd semester
Physical Chemistry Organic Chemistry Advanced Physics Approved Elective Junior Seminar	5 5 3 3 	Qualitative Organic Anal. Senior Research †Advanced Organic Chem. †Advanced Physical Chem. †Chemical Thermodynamics †Advanced Inorganic Chem.	
* Students exempted from En- position on the basis of the test must substitute anoth course in its place.	placement	†Adv. Theoretical Anal. Chem. Senior Seminar Approved Elective ‡Inorganic Preparations	3 1 1 3 3

+ Six hours of courses chosen from these offerings are required each semester.

Required of students deficient for accreditation in general chemistry laboratory.

THE MASTER'S DEGREE IN CHEMISTRY. The department offers work leading to the degree of Master of Science, the thesis problem being selected from the fields of inorganic, analytical, organic, or physical chemistry. Students who do not already have a reading knowledge of German must take German concurrently with their graduate work.

The normal outline of courses is as follows:

FIRST YEAR	lst seme	2nd STER	SECOND YEAR	lst SEMI	2nd ESTER
*Graduate Research	5	5	Graduate Research	5	5
*Advanced Chemistry	6	6	Advanced Chemistry	6	6
Seminar	1	1	Seminar	1	1

* Qualitative Organic Analysis and Chemical Thermodynamics required unless included in undergraduate training.

THE COMMERCE AND ECONOMICS CURRICULUM

The Department of Commerce and Economics offers a specialized curriculum, leading to the degree of Bachelor of Science in Commerce and Economics. Those who wish a less intensive or less specialized training in economics may take the Liberal Arts curriculum, with a concentration in economics, and receive the Bachelor of Arts degree. An advisor from

The Commerce and Economics Curriculum

the Economics faculty will assist students in building programs to meet their individual needs and plans.

The Commerce Curriculum is recommended for those who are preparing for a business career. It is intended to provide sound basic training in the various phases of business activity. The several options enable students to emphasize such specialized studies as accounting, banking, finance, insurance, government service, hotel and resort management, personnel management, production, sales management, and secretarial studies. The Department of Commerce and Economics cooperates with the Department of Mechanical Engineering in offering courses in the Management Engineering Curriculum. This curriculum is administered by the Department of Mechanical Engineering and is described in the section on engineering curricula.

The normal program for the first two years in the Commerce and Economics Curriculum is as follows:

THE FRESHMAN YEAR	1st 2nd SEMESTER	THE SOPHOMORE YEAR 1st 2nd SEMESTER	ĸ
Ec. Geography or History		English or American or	
Social Framework of Cap Entrepreneurial Problems		World Lit	
*English Composition		Prin. of Accounting 3 3	
Algebra, Math. of Finance		General Psychology 3 3	
*Foreign Language		Foreign Language, Calculus or	
Military Science (Men)	2 2	[†] American Government	
Physical Education		Military Science (Men) 2 2	
Hygiene (Women)	(1)(1)	Physical Education	

* In place of the foreign language students may choose Mathematics 11-12 and Calculus. † American Government should be elected by students who have completed the intermediate language requirement.

Students exempted from English Composition on the basis of the placement test must substitute another English course in its place.

The freshman and sophomore year programs for students in the Hotel and Resort Management option is specialized.

During the junior and senior years, Commerce and Economic students normally choose one of the following options:

ACCOUNTING

THE JUNIOR YEAR	-	2nd Ester	THE SENIOR YEAR		2nd ester
Advanced Accounting Financial Statement Anal Tax Accounting Money and Banking †American Govt. Business Law Approved Electives	3 3 3	3 3 3 3	Auditing Cost Accounting Labor Economics C.P.A. Problems Securities Markets Corp. Finance Laboratory Science Approved Electives	3 3 3	3 3 3 5 4-5

† Students who have completed this course will enroll in an approved elective.

The College of Technology

BANKING, FINANCE, AND INSURANCE

THE JUNIOR YEAR	lst 2nd SEMESTI	THE SENIOR YEAR 1st 2nd SR SEMESTER
Money and Banking		Laboratory Science
Securities Markets		Life Insurance
Corp. Finance		Property and Casualty Ins
Investments		Tax. and Fiscal Policies
Economic Statistics		Business Law 3 3
*American Govt.		Approved Electives
Business Cycles		
Approved Electives		

BUSINESS ADMINISTRATION

THE JUNIOR YEAR

1st	2nd
SEM	ESTER

Monev and Banking		
Securities Markets	3	
Corp. Finance		3
Investments		3
Economic Statistics	3	3
*American Govt.	3	3
Prin. of Marketing	3	
Approved Electives	3	3

INDUSTRIAL MANAGEMENT

v		2nd Ester
Labor Economics	3	
Collective Bargaining		3
Industrial Organization	3	
Personnel Management		3
Economic Statistics	3	3
*American Govt.	3	3
Prin. of Marketing	3	
Industrial Purchasing		3
Approved Electives	3	3

Small Bus. Operation		3
Approved Electives	3	3

THE SENIOR YEAR

THE SENIOR YEAR

Ist	2nd
123.6	0.01110.02

1st 2nd

SEMESTER

Laboratory Science	4-5	4-5
Time and Motion Study	4	
Plant Organization		4
Business Law	3	3
Approved Electives	6	6

MARKETING AND MERCHANDISING

THE JUNIOR YEAR	lst Seme	2nd STER		t 2 MES	nd TER
Principles of Marketing Industrial Purchasing Money and Banking Economic Statistics *American Govt. Approved Electives	3 	3 3 3 3 3	Laboratory Science 4 Personal Salesmanship 5 Small Bus. Operation 5 Sales Management 4 Advertising Prin. & Procedure 5 Business Law 5 Electives 4 Approved Electives 5	-5 3 3 3 3	4-5 3 3 3 3

* Students who have completed this course will enroll in an approved elective.

The Commerce and Economics Curriculum

PERSONNEL MANAGEMENT

THE JUNIOR YEAR	lst 2 SEME	2nd STER		lst 21 SEMES	
Applied Psychology			Personnel Administration	3 3	3
Economic Statistics		3	Laboratory Science	. 4-5 4-	-5
Labor Economics			Business Law	3 3	3
Collective Bargaining		3	Life Insurance	3	
*American Govt.		3	Consumption Economics	1	3
Industrial Organization			Time and Motion Study	. 4 .	
Personnel Management			Approved Electives		3
Approved Electives		6			

SECRETARIAL STUDIES

THE JUNIOR YEAR	 2nd ESTER			2nd ESTER
Business Correspondence Elementary Typing Elementary Shorthand *American Govt Business Law Approved Electives	 3 4 3 3	Advanced Typing Advanced Shorthand Office Tech. & Machines Office Management Sec. Principles & Practice Approved Electives	4 3 3	4 3 3

* Students who have completed this course will enroll in an approved elective.

HOTEL AND RESORT MANAGEMENT

THE FRESHMAN YEAR 1st 2nd	THE SOPHOMORE YEAR 1st 2nd
SEMESTER	SEMESTER
[†] English Composition3 3 Social Framework of Cap3 American Govt3 3 Algebra, Math. of Finance3 3 Introductory Chemistry4 4 Hotel & Resort Mgt. Survey2 Military Science (Men)2 2 Physical Education(1)(1)	English, American or World Lit. 3Prin. of Economics3Organic Chemistry5Prin. of Accounting3777899
Practical Experience: Ten 40-hour weeks	Practical Experience: Ten 40-hour weeks
during summer required.	during summer required.

† Students exempted from English Composition on the basis of the placement tests must substitute another English course in its place.

The College of Technology

THE JUNIOR YEAR	1st 2nd semester	THE SENIOR YEAR		2nd ester
Economic Statistics		Business Law	3	3
Taxation		Personnel Management	3	
General Psychology		Real Estate		3
Property & Casualty Insura	ince 3	Labor Economics	3	
Buying Textiles & Clothin	g 3	Advertising		3
Meal Planning & Service		Hotel & Resort Administratio	on 3	
Food Production		Hotel & Resort Problems		3
Hotel & Resort Equipment		Institution Marketing	2	
Hotel & Resort Structures	&	Institution Equipment		2
Maint.		Approved Electives	3	3
Approved Electives				

Practical Experience: Ten 40-hour weeks during summer required. Special arrangements will be made for students attending ROTC Camp.

THE ENGINEERING CURRICULA

The engineering curricula are designed to help students learn how to approach and deal in a professional manner with problems and situations they will meet as engineers, citizens and individuals. In so doing, the curricula will assist them in preparing to continue to learn from experience and to grow in stature after graduation.

The Departments of Engineering offer instruction in four curricula, Civil, Electrical, Management, and Mechanical Engineering, each leading to the degree of Bachelor of Science in the field of specialization. Each curriculum includes the general subjects: mathematics, chemistry, physics, mechanical drawing, elements of electrical engineering, mechanics, hydraulics, economics, English, and contracts or business law.

All freshman and sophomore men are required to complete the two basic courses in Military Science for a total credit of eight semester hours, which become an integral part of the record and are counted toward graduation. Two years of Physical Education are required of all students.

An inspection trip is required of all engineering students in the junior year. This trip requires several days, and visits are made to plants in industrial centers in New England. The trip is required for graduation, but does not carry credit. The expense is borne by the student.

Students enrolled in the civil, electrical, and mechanical engineering curricula may become affiliated with their respective national professional engineering societies, the American Society of Civil Engineers, the American Institute of Electrical Engineers, and the American Society of Mechanical Engineers, as each of these organizations has authorized a student chapter at the University of Vermont. These student organizations sponsor frequent meetings, the purpose of which is to present an opportunity

The Engineering Curricula

for students to conduct activities similar to those conducted by members of the national societies. These activities include meetings at which technical papers are presented by students and by engineers who are actively engaged in the profession, attendance at conventions, and inspection trips, all of which provide helpful contact with engineering practice and also assist in the development of the qualities of leadership which are so essential for success in the engineering profession.

THE FRESHMAN YEAR

(For All Curricula)

* Students exempted, from English Composition on the basis of the placement test must substitute another English course in its place.

CIVIL ENGINEERING THE SOPHOMORE YEAR

	SEMESTER
Calculus (M.M. 21-22)	
Gen'l Physics (Phys. 11-12)	5 5
Expository Writing (Engl. 1	6) 3
Statics (M.M. 24)	3
Surveying (C. E. 51-52)	
Military Science 11-12	
Physical Education 11-12	
	18 18
Summer, Engineering Camp, 6	ó wks. 4

MANAGEMENT ENGINEERING

THE SOPHOMORE YEAR 1st 2nd SEMESTER Calculus (M.M.21-22) 3 3 Gen'l Physics (Phys. 11-12) 5 5 Prin. of Econ. (Econ. 11-12) 3 3 Mfg. Processes (M.E. 51-52) 2 2 Elements of M.E. (M.E. 81) 3

 Statics (M.M. 24)
 3

 Military Science 11-12
 2

 Physical Education 11-12
 (1) (1)

19 19

1st 2nd

1st 2nd SEMESTER

Freshman Math. (M.M. 11-12)	5	5
Intro. Chemistry (Chem. 1-2)	4	.4
Engrg. Drawing (M.E. 1-2)	3	3
*English Comp. (Engl. 1-2)	3	3
Engrg. Problems (M.E. 3-4)	1	1
Military Science 1-2	2	2
Physical Education 1-2(1	l) ((1)
-		

19 19

ELECTRICAL ENGINEERING

THE SOPHOMORE YEAR	1st 2nd
	SEMESTER
Calculus (MM 21.22)	1 1

Calculus (M.M. 21-22)	3	3
Gen'l Physics (Phys. 11-12)	5	5
Expository Writing (Engl. 16)	3	
Elec. & Mag. Ccts. (E.E. 21)	5	
D. C. Machines (E.E. 22)	••••	5
Elect. Lab. I (E.E. 24)		1
Statics' (M.M. 24)		3
Military Science 11-12	2	2
Physical Education 11-12	1)	(1)
-		
1	9	20

MECHANICAL ENGINEERING

THE SOPHOMORE YEAR 1st 2nd SEMESTER

Calculus (M.M. 21-22)	3	3
Gen'l Physics (Phys. 11-12)	5	5
Mfg. Processes (M.E. 51-52)	2	2
Expository Writing (Engl. 16)	3	•••
Public Speaking (Speech 11)		3
Elements of M. E. (M.E. 81)	3	
Statics (M.M. 24)		3
Military Science 11-12	2	2
Physical Education 11-12	(1)	(1)
	19	19

1st 2nd

CIVIL ENGINEERING THE JUNIOR YEAR

THE SENIOR YEAR

l st	2nd
CEN C	COTTOR

s	ЕМ	ESTER
Kinetics (M.M. 25)		3
Mech. of Materials (M.M. 131)	3	
Prin. of Econ. (Econ. 11-12)	3	3
Highways Engrg. (C.E. 174)	3	
Hydraulics (C.E. 161)		3
Hydraulics Lab. (C.E. 163)		1
Elementary Structures I		-
(C.E. 103)	3	
Elementary Structures II		
(C.E. 104)		3
Engrg. Geology (Geol. 21)	3	
Materials Lab. (C.E. 112)		2
Approved Elective	3	3
	<u> </u>	
	18	18

ELECTRICAL ENGINEERING

THE JUNIOR YEAR

lst 2nd SEMESTER

Diff. Equations (M.M. 111)	3	
Kinetics (M.M. 25)	3	
Mech. of Materials (M.M. 131)	•••	3
A. C. Circuits (E.E. 103-104)	5	3
Electronics (E.E. 110)		4
Elect. Lab. II (E.E. 105-106)	1	1
*Prin. of Econ. (Econ. 11-12)	3	3
Thermodynamics (M.E. 113)		
Power Engrg. (M.E. 116)		4
		-

18 18

MANAGEMENT ENGINEERING

THE JUNIOR YEAR

1st 2nd SEMESTER

Prin. of Accounting (Econ.		
13-14)	3.	3
Gen'l Psychology (Psych. 1-2)	3	3
Kinetics (M.M. 25)	3	
Mechanics of Mat'ls (M.M. 131)		3
Indus. Metallurgy (M.E. 101)	4	
Fluid Mechanics (M.E. 142)		4
Thermodynamics (M.E. 111)	4	••••
Statistics (Econ. 187)	,	3
Expository Writing (Engl. 16)	3	
Public Speaking (Speech 11)		3
•	_	.

	SEM	ESTER	¢
Elec. Cir. & Mach. (E.E. 101-2) 4	4	
Indet. Structure I (C.E. 181)			
Struct. Design (C.E. 182)		3	
Sanitary Engrg. (C.E. 165, 166) 3	3	
Contracts (C.E. 151)	2		
Engrg. Constr. (C.E. 184)		3	
Reinforced Concrete I			
(C.E. 155)	3	•••	
Reinforced Concrete II			
(C.E. 156)		3	
Approved Elective	3	3 -	
	18	19	

	2nd ESTI	-
A. C. Machines (E.E. 107-108) 4	• 4	
Communication Ccts. (E.E. 115)		***
Power Transmission (E.E. 113) 3		
Elec. Lab. III (E.E. 111-112) 2	2	
Public Speaking (Speech 11)	3	
Metallurgy (M.E. 101) or		
Hydraulics (C.E. 161 & 163)	4	
Contracts (C.E. 151)		
Approved Electives	5	
19	18	

2nd
ESTER
3
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19

The Medical Technology Curriculum

MECHANICAL ENGINEERING

THE JUNIOR YEAR	lst 2nd SEMESTER		t 2nd MESTER
Kinetics (M.M. 25) Mechanics of Mat'ls (M.M. 1 Materials Lab. (C.E. 114) Elec. Ccts. & Mach. (E.E. 101-2) Indus. Metallurgy (M.E. 10 Kinematics (M.E. 132) Thermodynamics (M.E. 111) Fluid Mechanics (M.E. 142 *Prin. of Econ. (Econ. 11-12) M. E. Lab. (M.E. 143)	3 31) 1 4 4 4 4 4 4 4 4 4 4 3	Machine Design (M.E. 151, 152) Power Plants (M.E. 161) Intern. Comb. Eng. (M.E. 164) Indust. Engrg. (M.E. 171) or Air Conditioning (M.E. 181) Factory Plan. (M.E. 172) or Aerodynamics (M.E. 182) Contracts (C.E. 151) Seminar (M.E. 192) Electives	4 4 4 3 4 2 5 6 6 6
	19 19		

* This course may be deferred until the Senior year for those students electing Advanced Military Science.

THE MEDICAL TECHNOLOGY CURRICULUM

The curriculum is divided into two parts, the pre-clinical period consisting of three years of work in the College of Technology (ninety-one semester hours) and the clinical period of fifteen months under the supervision of the College of Medicine.

The work of the pre-clinical period is designed to give the students a scientific background which will enable them to learn to perform intelligently the highly specialized techniques of the modern diagnostic laboratory. The work of the clinical period consists of learning techniques, taking prescribed courses in the College of Medicine, and practical experience in the laboratories of the teaching hospitals.

The clinical period begins with the summer following completion of the junior year in the College of Technology. At the end of eleven months, if the student's work is satisfactory, the degree of Bachelor of Science in Medical Technology is conferred at the regular Commencement exercises. The final four months of the program are devoted to full-time work in the hospital laboratory, at the end of which time the student may be recommended to the Registry of Medical Technologists as eligible to take the examination for certification by that body.

Following is the normal outline of courses:

The College of Technology

FIRST YEAR	1st 2nd	SECOND YEAR	1st 2nd
	SEMESTER		SEMESTER
English Composition		English, Amer., or World	Lit 3 3
General Chemistry		Elementary Quantitative	
Zoology (Intro. & Vert.)		Analysis	
Mathematics (Algebra &	Trigo-	Zoology (Comparative	
nometry)		Anatomy)	
Physical Education		Bacteriology	
Military Science (men)		French or German (Elem.	
Hygiene (women)		Inter.)	
		Approved Non-science Elec	
THIRD YEAR	1st 2nd	Physical Education	(1)(1)
	SEMESTER	Military Science (men)	
Organic Chemistry			
*Intermediate French or (German 3 3	FOURTH YEAR†	1st 2nd
Zoology (Histology)			SEMESTER
Introductory Physics		Basic Techniques (continue	ed) 2
Approved Non-science El		Clinical Pathology	
* *		Biochemistry	
SUMMER		Hospital Assignments	
Basic Techniques		Bacteriology	

* Those excused from elementary foreign language will take intermediate language the sophomore year and six additional hours of approved non-science electives in the junior year.

+ For description of the courses in the senior year see catalog of the College of Medicine.

COURSES OF INSTRUCTION

CHEMISTRY

Professor Braun; Associate Professors Crooks^{*}, Gregg; Assistant Professors C. L. Brown, G. H. Brown, Cashin and Lucarini

SPECIAL REQUIREMENTS FOR CONCENTRATION (LIBERAL ARTS CURRICU-LUM): Satisfactory completion of General Chemistry, Elemenary Quantitative Analysis, Organic Chemistry, Physical Chemistry, and the junior and senior seminars. No advanced related course is required. Those who wish to qualify for accreditation by the American Chemical Society must take additional courses, and only those who so qualify will be recommended by the department as chemists.

FEES. The tuition fees cover ordinary breakage and the cost of reagents used. For extraordinary breakage, such as Beckmann thermometers, and damage to instruments, separate charges are made.

* On military leave.

Chemistry

- Four hours. 1, 11 1-2 INTRODUCTORY CHEMISTRY. (3-3). An introductory course in general inorganic chemistry. Lectures, recitations, and laboratory. Acceptable by the department as a prerequisite to advanced courses. Prerequisite: one year of high school mathematics. Mr. Cashin, Miss Brown and Staff Five bours. 1, 11 11-12 GENERAL CHEMISTRY. (3-6). Lectures, recitation, and laboratory, including general experiments and elementary qualitative analysis. Recommended for those concentrating in science. Prerequisite: one year of high school mathematics. Mr. Gregg, Miss Brown and Staff 21-22 ELEMENTARY QUANTITATIVE ANALYSIS. (2-6) + Four bours. 1, 11 Introduction to the theory and practice of quantitative methods, both gravimetric and volumetric, including also a theoretical discussion of indicators, buffers, and pH. Mr. Brown and Mr. Lucarini Prerequisite: 1-2. *Five bours. 1, 11 31-32 ORGANIC CHEMISTRY. (3-6)* Organic chemistry for chemistry majors, premedical students, and those concentrating in the biological and physical sciences. Prerequisite: 1-2; 21-22 recommended. Messrs. Braun, Gregg and Lucarini 35 OUTLINE OF ORGANIC CHEMISTRY. (3-4) Five bours. 1 An introduction to organic chemistry, primarily for students in Agriculture, Home Economics, and Nursing. Mr. Gregg and Staff Prereauisite: 1-2 or 4. *Five bours. 1, 11 41-42 PHYSICAL CHEMISTRY. (3-6); Introduction to the kinetic theory and its application to gases; thermodynamics and the application to liquids and solutions; chemical equilibria: fundamentals of electrochemistry and atomic structure. Prerequisite: 21-22; General Physics; Calculus. Mr. Cashin ADVANCED INORGANIC CHEMISTRY G101 NON-AQUEOUS SYSTEMS. (3-0) Three hours. I Study of solvents other than water, with special emphasis on the ammonia system. Prerequisite: 41-42. Mr. Brown † May be taken by certain students for three hours credit, with only one three-hour laboratory period. * May be taken by certain students for four hours credit, with only one three-hour laboratory period. This course is regarded as an advanced course, meeting requirements for concentration in the Liberal Arts Curriculum.
- # May be taken without the laboratory work for three hours credit by permission of the department. This course is regarded as an advanced course, meeting requirements for concentration in the Liberal Arts Curriculum.

G102 SPECIAL TOPICS IN INORGANIC CHEMISTRY. (3-0) Three hours. II A detailed study of the rarer elements and their significance. Prerequisite: 41-42. Mr. Brown

Two bours. II

Mr. Brown

Laboratory preparations of inorganic compounds. Prerequisite: 1-2.

ADVANCED ANALYTICAL CHEMISTRY

108 INORGANIC PREPARATIONS. (0-6)

G121 ADVANCED THEORETICAL ANALYTICAL CHEMISTRY. (3-0)

Three hours. 1 Discussion of pH, buffers, solubility product, and ionic equilibria. Analysis of anions and of the less familiar elements. Considerable material on physico-chemical methods, including electrodeposition, polarography, microscopy, and chromatography. Mr. Brown Prerequisite: 41-42.

ADVANCED ORGANIC CHEMISTRY

G130 CHEMISTRY OF THE CARBOHYDRATES. (3-0) Three hours. 11 Detailed description of the chemistry of the more common carbohydrates, including proofs of structure. (Offered in alternate years. 1952 - 53.)

Prerequisite: 31-32; credit or concurrent enrollment in 41-42. Mr. Braun

G131, 132 SPECIAL TOPICS IN ORGANIC CHEMISTRY. (3-0)

Three hours. I. II Detailed discussion of specific groups of organic compounds, i.e. sterids, heterocyclic compounds, terpenes, proteins, carbohydrates, vitamins, hormones, etc. (Offered in alternate years, 1952-53.) Prerequisite: 31-32; credit or concurrent enrollment in 41-42.

Mr. Gregg

G133, 134 PHYSICAL ORGANIC. (3-0) Three hours. 1, 11 Physical organic chemistry, with emphasis on structural aspects and reaction mechanisms. (Offered in alternate years, 1953-54.) Prerequisite: 31-32; 41-42. Mr. Gregg

G136 CHEMISTRY OF CYCLIC COMPOUNDS. (3-0) Three hours. п The chemistry of alicyclic and of the more common heterocyclic compounds. (Offered in alternate years, 1953-54.)

Prerequisite: 31-32; credit or concurrent enrollment in 41-42.

Mr. Braun

Chemistry

G137 QUALITATIVE ORGANIC ANALYSIS. (3-8) Five bours. 1 Characterization and identification of organic compounds, including compounds in mixtures. Prerequisite: 31-32; credit or concurrent enrollment in 41-42. Mr. Braun ADVANCED PHYSICAL CHEMISTRY Three hours. 1 G141 CHEMICAL THERMODYNAMICS. (3-0) A systematic study of the application of thermodynamics in the solution of chemical problems. Prerequisite: 31-32; 41-42. Mr. Cashin Three hours. II G142 CHEMICAL KINETICS. (3-0) The velocity of chemical reactions in both homogeneous and heterogeneous systems. Prerequisite: 41-42. Mr. Cashin G144 PHASE RULE, (3-0) Three hours. II Heterogeneous equilibrium in one, two, and three component systems. (Offered in alternate years, 1953-54.) Prerequisite: 41-42. Mr. Brown One hour. I.II 151-152 JUNIOR SEMINAR. (2-0) One hour. 1. 11 153-154 SENIOR SEMINAR. (2-0) 197-198 SENIOR RESEARCH. (0-6, 0-12) Two hours. I. Four hours. II The students elect a field for special study in organic, analytical, physical, or organic chemistry, works under the direction of a staff member, and submits his findings in written form, suitably bound, to the department to be filed. Required of seniors in the Chemistry Curriculum. The Staff G251-252 GRADUATE SEMINAR. (2-0) One hour. 1, 11 Student reports on current research papers appearing in English and German. Required of graduate students in chemistry and of juniors and seniors concentrating in chemistry. The Staff G297-298 GRADUATE RESEARCH. Five bours. 1, 11 Graduate students complete a research problem and submit the results in written form to the department. Three copies, suitably bound, are required. The Staff For AGRICULTURAL BIOCHEMISTRY, see the College of Agriculture.

The College of Technology

COMMERCE AND ECONOMICS

Professors Lohman and Briggs; Associate Professors Knollmeyert, Nulty, and Woodard; Assistant Professors Carse, Donabue, Greif, Maybury, Nadworny, Petersen, and Riccardit; Messrs. Farrand, Severance, Van Nostrand, Wick, and Mrs. Pettis.

SPECIAL REQUIREMENTS FOR CONCENTRATION (LIBERAL ARTS CURRICU-LUM): Courses in economics totalling at least twenty-four semester hours, including twelve or more of advanced grade. The related courses are chosen in consultation with the departmental advisor on the basis of the student's individual needs and plans.

- Three hours. I, II *1-2 ECONOMIC GEOGRAPHY. Geography as a basis for economic development; importance of resources to production, exchange, consumption, population, and na-Miss Woodard tional economies.
- *5, 6 ECONOMIC HISTORY OF THE UNITED STATES. Three hours. I, II The economic development of the United States from colonial times to the present as a basis for an understanding of our present economic Mr. Nadworny and Miss Woodard problems.
- Three hours. 1 9 SOCIAL FRAMEWORK OF CAPITALISM. The institutional framework of the American economy with emphasis upon private property, competition, the price regulatory system, free enterprise, and their relationship to the national product.

Mr. Donahue Three hours. II

10 ENTREPRENEURIAL PROBLEMS.

Entrepreneurial behavior within the institutional framework of capitalism with emphasis upon business policies, organization, facilities, and techniques.

Prerequisite: 9.

*11-12 PRINCIPLES OF ECONOMICS.

Fundamental economic principles as an aid to the understanding of modern economic society.

Prerequisite: sophomore standing.

*13-14 PRINCIPLES OF ACCOUNTING. Three hours. I. II An elementary course in the problems of the financial control of business, with the necessary practice work.

Messrs. Briggs and Donabue Prerequisite: sophomore standing.

- * Courses accepted for credit in the College of Arts and Sciences.
- † On military leave.

‡ On leave, 1951-52.

Mr. Donahue

Three hours. 1, 11

The Staff

Commerce and Economics

31 ENGINEERING ACCOUNTING.

A course emphasizing cost and depreciation accounting, designed primarily to meet the needs of the engineer. Mr. Briggs Two hours. 1 and 11 49 GENERAL TYPING. Instruction in correct technique; mastery of the keyboard; practice to attain typing proficiency. Fee \$22.50 per semester. Not open to secretarial or business education students. Mrs. Pettis Three hours. 1, 11 65-66 BUSINESS CORRESPONDENCE. Instruction and practice in writing business letters and reports. Mrs. Maybury BANKING, FINANCE, AND INSURANCE Three hours. 1, 11 *G101-102 MONEY AND BANKING. The functions of money, credit, and banking in modern economic society. The theory of the internal and external value of money; the control of the money market; interrelationship of monetary and fiscal policies and their effects upon national and international price movements. Messrs. Carse and Lohman Prerequisite: 11-12. Three hours. 1 *G103 ECONOMICS OF TAXATION. Revenues and expenditures of federal, state, and local governments and their effects upon individuals, business institutions, and the national economy. Prerequisite: 11-12. Mr. Petersen Three hours. 11 *G104 FISCAL POLICIES. Theories underlying national fiscal policies. An analysis of national debt management and of the proposals to control cyclical fluctuations. Prerequisites: 103 and 193. *105 INTERNATIONAL TRADE AND FINANCE. Theory of international values, mechanism of adjustment of international balances, foreign exchange-theory, the international aspects of monetary and banking theory, and tariff theory. Prerequisite: 101-102. Mr. Severance Three hours. 1 G106 SECURITIES MARKETS. Analysis of the organization and operation of organized and over-thecounter securities markets; different types of securities; primary and secondary markets in the process of capital formation; securities price behavior; government and self-regulation of securities markets. Mr. Lohman Prerequisite: 11-12 and 13-14. * Courses accepted for credit in the College of Arts and Sciences.

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Three bours. 1

Mr. Petersen

Three hours. 1

G107 CORPORATION FINANCE.

A comparison of the various types of business forms with chief attention to the financing of corporations. Messrs. Carse and Lohman

Prerequisite: 11-12 and 13-14.

G108 INVESTMENTS.

A study of the various media of investments and of the operation of financial institutions. Special consideration to an investment analysis of industrials, financial institutions, public utilities, and railroads. Practical application of available statistical and accounting tools.

Prerequisite: 107.

109-110 BUSINESS LAW.

First semester: a survey of the American system of law with particular reference to some of the fundamental legal concepts relating to business, especially as found in the law of contracts, sales, bailments, and negotiable instruments. Second semester: a continuation of the study of the legal aspects of business with specific reference to the law of agency, partnerships, and corporations. Prerequisite: 11-12.

111 ECONOMICS OF LIFE INSURANCE.

Types of life insurance contracts and their application; premium and reserve computation, social security and other forms of life insurance. Prerequisite: 11-12 and 13-14. Mr. Lohman

112 PROPERTY AND CASUALTY INSURANCE. Three hours. n The principles underlying property and casualty insurance. Prerequisite: 11-12 and 13-14. Mr. Lohman

Three hours. 1 113 URBAN AND INDUSTRIAL LAND ECONOMICS. Economic principles underlying the utilization and conservation of urban and industrial land resources. (Offered in alternate years, 1952-53.)

Prerequisite: 11-12.

114 REAL ESTATE.

The principles underlying the leasing, purchasing, selling, valuation, and financing of real estate for personal and business uses. (Offered in alternate years, 1952-53.) Prerequisite: 11-12 and 13-14.

HOTEL AND RESORT MANAGEMENT

4 HOTEL AND RESORT MANAGEMENT SURVEY. Two bours. II Introduction to hotel and resort management and its various aspects. Mr. Van Nostrand

88

Mr. Wick

Three bours. 1

Three hours. II

Three hours, 1

Three hours. u

Three hours. I. II

Messrs. Carse and Lohman

Commerce and Economics

166 HOTEL AND RESORT EOUIPMENT. Three hours, 1 A study of various types of hotel and resort equipment, their operation and application. Prerequisite: Economics 4. 167 HOTEL AND RESORT STRUCTURES AND MAINTENANCE. Three hours. II Materials and methods of building construction, repair and maintenance. Specification and repair of hotel and resort fixtures and furniture. Prerequisite: 166. Three hours. 1 177 HOTEL AND RESORT ADMINISTRATION. The study of hotel and resort organization and administration. Prerequisite: 166 and 167. 178 HOTEL AND RESORT PROBLEMS. Three hours, 11 A study of the specific problems arising in the management and operation of hotels and resorts. Prerequisite: 177. MARKETING AND MERCHANDISING 121 PRINCIPLES OF MARKETING. Three bours: 1 The place of marketing in our economy. An intensive analysis of the marketing structure by functions, institutions, and commodities. Mr. Greif Prerequisite: 11-12. 122 INDUSTRIAL PURCHASING. Three hours. 11 Organization, operation, scope and place of the purchasing department in company organization. Policies, quality and inspection, quantity, price, sources, budgets and records. Mr. Greif Prerequisite: 121. Three bours. I 123 PERSONAL SALESMANSHIP. A practical approach through class participation and individual demonstration to modern salesmanship, emphasizing the approach to, presentation and close of the sale. Prerequisite: 121. Mr. Greif 125 AMERICAN MARKETING SPEAKS. Three bours. 1 A symposium for the analysis of trends in the American marketing

A symposium for the analysis of trends in the American marketing structure. Outstanding leaders in American business will present their opinions. Class analyses to follow each presentation. *Prerequisite*: 121. *Mr. Greif*

The College of Technology

126 OPERATION OF SMALL BUSINESS AND SERVICE ESTABLISHMENTS. Three hours. 11

A practical consideration of how the individual establishing his own business meets the problems of finance, location, display, merchandising, promotion and control. Individual project development. Mr. Greif Prerequisite: 121.

131 SALES MANAGEMENT.

The new and established trends of the sales manager's job. Method of selection, training, testing, compensation and control, including marketing policies and the coordination of related departmental functions.

Prerequisite: 121.

132 FUNDAMENTALS OF ADVERTISING.

Advertising as an economic and social influence. A study of principles and techniques of copy preparation, media of selection and advertising activities. Students will receive practice in preparation of advertising copy and layout. Mr. Greif

Prerequisite: 121.

INDUSTRIAL AND PERSONNEL MANAGEMENT

*141 LABOR ECONOMICS.

History of the American labor movement; objectives, policies, and tactics of labor unions; public policy with respect to labor organizations.

Prerequisite: 11-12.

*G142 COLLECTIVE BARGAINING.

The collective labor agreement; techniques of the bargaining process; arbitration; the administration of the labor contract. Prerequisite: 141. Mr. Nadworny

143 INDUSTRIAL ORGANIZATION AND MANAGEMENT. Three hours. 1 Organization of manufacturing plant and plant managerial prob-

lems. Types of operation, use of standards, plant location and layout. Survey of production control; routing, scheduling, methods analysis, and quality control. Field trips to factories. Mr. Donahue Prerequisite: 11-12.

144 PERSONNEL MANAGEMENT.

The human factor in production; evaluation of means of attaining worker-management cooperation; the influence of social groups and human attitudes at the work level; the nature and functioning of collective bargaining.

Prerequisite: 11-12.

Mr. Donabue

Three hours. II

* Courses accepted for credit in the College of Arts and Sciences.

Three hours. 1

Mr. Greif

Three hours. 11

Three hours, 1

Mr. Nadworny

Three hours, II

Commerce and Economics

G151-152 PERSONNEL ADMINISTRATION. Functions and objectives of a personnel departm control testing, and safety; incentive plans; places interviewing techniques. Field trips to factories, su <i>Prerequisite</i> : 142 and 144.	ment, selection, and
Students in Industrial and Personnel Management al year the two following courses given in the departu Engineering. For descriptions see "Engineering, Mec	nent of Mechanical
175 TIME AND MOTION STUDY.	Four bours. 1
176 PLANT ORGANIZATION.	Four bours. 11
ACCOUNTING	
161-162 ADVANCED ACCOUNTING. Advanced valuation problems in the financial c <i>Prerequisite:</i> 13-14.	Three hours. 1, 11 ontrol of business. Mr. Briggs
163 FINANCIAL STATEMENT ANALYSIS. Preparation and analysis of the more common a statements.	-
Prerequisite: 13-14. 164 TAX ACCOUNTING. The technical and accounting aspects of the i and excise tax laws. Prerequisite: 13-14.	Mr. Briggs Three bours. 11 ncome, estate, gift, Mr. Briggs
G171 AUDITING.	Three hours. 1
The theory and practice of auditing, types of audi working papers, and reports.	
Prerequisite: 161-162.	Mr. Briggs
G172 COST ACCOUNTING. A thorough consideration of the basic principles and their practical application.	Three hours. II of cost accounting
Prerequisite: 161-162.	Mr. Briggs
G176 C. P. A. PROBLEMS. Accounting theory and practice for those interv	Three hours. II ested in professional
accounting. Prerequisite: 161-162.	Mr. Briggs
ECONOMICS	5. 1
*181 TRANSPORTATION. Social and economic aspects of the transportation by an analysis of the nature, history, and problems of	<i>Three hours.</i> I problem as revealed of the various trans-
* Courses accepted for credit in the College of Arts and Sciences.	•

The College of Technology

portation agencies of the United States. (Offered in alternate years, 1952-53.)

Prerequisite: 11-12; Political Science 1, 2.

*182 PUBLIC UTILITIES.

Three hours. 11

The economics of public utility enterprise with special reference to franchises, capital structure, valuation, rate making, and governmental regulation. (Offered in alternate years, 1952-53.) Prerequisite: 11-12.

Three hours. 1 *183 ECONOMIC LIFE AND GOVERNMENT CONTROL. A study of the economic causes and consequences of government regulation and control of business activities. Prerequisite: 11-12; Political Science, 1, 2. Mr. Severance

*184 THE ECONOMICS OF CONSUMPTION. Three bours. Π Consumption and consumers' choice; their relationship to the modern exchange economy; measurements of consumption; methods proposed for the increase and diversification of consumption. Mr. Farrand Prerequisite: 11-12.

*G185-186 INTERMEDIATE ECONOMIC ANALYSIS. Three hours. 1, 11 An analysis of consumer demand, imperfect and monopolistic competition, equilibrium theory, and the determination of distributive shares.

Prerequisite: 11-12.

*G187-188 ECONOMIC STATISTICS.

The theory and interpretation of statistics; laboratory exercises in the uses of statistical techniques and in the application of statistical tools to economic problems. Mr. Farrand

Prerequisite: 11-12; Math. 1 and 4.

*G192 INTERNATIONAL ECONOMIC PROBLEMS AND POLICIES.

Three hours. II

Important aspects of international cooperation and conflict in the economic sphere; the quest for foreign markets, raw materials, investment opportunities, and population outlets. Prerequisite: 105.

Mr. Severance Three hours. 1

*G193 BUSINESS CYCLE THEORY.

The pattern of cyclical fluctuations; analysis of the major theories of business cycles.

Prerequisite: 101-102.

Mr. Severance

* Courses accepted for credit in the College of Arts and Sciences.

92

Mr. Petersen

Three hours. 1, 11

Commerce and Economics

"G19) HISTORY OF ECONOMIC THOUGHT. The development of economic ideas from classical modern times, with emphasis on the Classical, Histor Optimist, Marginalist, and Neoclassical Schools. <i>Prerequisite</i> : 185-186 or consent of instructor.	antiquity to rical, Socialist, Mr. Petersen
*G196 MODERN ECONOMIC THOUGHT. T A survey of the leading 20th Century economists and to including studies of J. B. Clark, Thorstein Veblen, Al W. C. Mitchell, J. A. Hobson, J. M. Keynes, J. R. Hick Prerequisite: 195.	fred Marshall,
*G197, 198 SEMINAR. The Designed for students concentrating in the department recent books and periodical literature; discussions of t temporaneous interest; student reports based upon p tigation. Prerequisite: senior standing; consent of the chairman.	copics of con- ersonal inves-
*G201-202 RESEARCH. A course designed to meet the special research provanced undergraduate and graduate students. Consent ment required.	1, 11 oblems of ad-
SECRETARIAL STUDIES	
53-54 ELEMENTARY SHORTHAND. Fo Instruction in the fundamental principles of Greg Dictation and transcription of business letters.	our bours. 1, 11 gg Shorthand. Miss Nulty
55-56 ADVANCED SHORTHAND. Fo Dictation covering a broad business vocabulary and literary and technical subject-matter. Emphasis on sp dictation and transcribing.	beed in taking
Prerequisite: 53-54.	Miss Nulty
59-60 ELEMENTARY TYPEWRITING. The Instruction in the care of the typewriter; correct techn of the keyboard; practice in variety of forms of material.	ree hours. 1, 11 nique; mastery
of the keyboard, practice in variety of forms of material.	Mrs. Pettis
61-62 ADVANCED TYPEWRITING. The Development of typing speed; projects covering the of commercial typing; transcription of shorthand notes. Prerequisite: 59-60.	ree bours. 1, 11 different kinds Mrs. Maybury
* Courses accepted for credit in the College of Arts and Sciences.	- •

69 OFFICE TECHNIQUES AND MACHINES. Three hours. I Use, care, and operation of office machines with emphasis on dictating and transcribing, duplicating, and calculating machines. Modern filing systems are studied with actual practice in business filing. Mrs. Maybury Prerequisite: senior standing.

70 OFFICE MANAGEMENT.

Organization and supervision of office activities from the standpoint of the office manager; selection and training of personnel, production standards, as well as office forms, systems, equipment and supplies, office manuals, and physical aspects of office planning and layout. Prerequisite: senior standing. Mrs. Maybury

71-72 SECRETARIAL PRINCIPLES AND PRACTICE.

Qualifications and practical training in the duties required of a secretary, including use of business and legal forms, interviewing business callers, reporting conferences, and keeping business calendars. Practical dictation and transcription are included. Prerequisite: senior standing. Mrs. Maybury

ENGINEERING, CIVIL

Professor Puffert; Associate Professor Milbank; Assistant Professor Koerner; Mr. Root

51-52 SURVEYING. (3-4)

51 Plane and topographic surveying.

52 Route surveying; theory of curves, earthwork calculations, photogrammetry. Prerequisite: Trigonometry.

54 ENGINEERING CAMP.

Six weeks summer field practice in practical surveying between sophomore and junior years.

- 103 ELEMENTARY STRUCTURES I. (0-6) Three hours. I Determination of stresses in simple framed structures. Prerequisite: Statics (M.M. 24).
- 104 ELEMENTARY STRUCTURES II. (0-6) Three bours. n Theory and design of simple framed structures. Prerequisite: 103 and Mechanics of Materials (M.M. 131).
- 112 MATERIALS LABORATORY. (0-4) Two bours. II Testing of engineering materials and soils. Prerequisite: Mechanics of Materials (M.M. 131).

† Deceased, October 11, 1951.

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Four bours. 1, 11

Four hours. Summer

Three hours. II

Three hours. 1, 11

Civil Engineering

 114 MATERIALS LABORATORY FOR MECHANICAL ENGIN DENTS. (0-2) Testing of engineering materials. Prerequisite: Mechanics of Materials (M.M. 131). 	NEERING STU- One hour. 11
151 CONTRACTS. (2-0) Study of contract law from the engineering point of	Two hours. 1 view.
 155 REINFORCED CONCRETE I. (0-6) Elementary theory and design of reinforced concrete Prerequisite: Mechanics of Materials (M.M. 131). 	Three hours. 1 structures.
156 REINFORCED CONCRETE II. (0-6) Advanced theory and design of reinforced concrete s <i>Prerequisite:</i> 155.	Three hours. II structures.
G157 BUILDING CONSTRUCTION. (3-0) Three Practical building construction in various materials. Prerequisite: 104.	e bours. 1 or 11 Elective course.
161 HYDRAULICS. (3-0) The mechanics of liquids; hydraulic machinery. Prerequisite: Statics and Kinetics (M.M. 24, 25).	Three hours. 11
163 HYDRAULICS LABORATORY. (0-3) Given in conjunction with 161.	One hour. 11
G164 WATER POWER ENGINEERING. (3-0) Thr. The study of water power development. Elective co Prerequisite: 161.	
 165, 166 SANITARY ENGINEERING. (3-0) T. 165 Design, construction, maintenance and operation of public was 166 Design, construction, maintenance and operation of sewerage at treatment plants. 	bree hours. 1, 11 ter supplies. systems and sewage
174 HIGHWAY ENGINEERING. (3-0) Design, construction, and maintenance of modern hi <i>Prerequisite:</i> Mechanics of Materials (M.M. 131).	Three hours. 1 ghways.
181 INDETERMINATE STRUCTURES I. (0-6) Elementary treatment of analysis of statically indet tures by Castigliano's theorem, slope-deflection method distribution. Continuous structures, rigid frames consid- by determination of deflections of structures by virtual area and Williot-Mohr. <i>Prerequisite</i> : 104.	d, and moment lered. Prefaced
182 STRUCTURAL DESIGN. (0-6) Advanced theory and design of framed structures. <i>Prereauisite</i> : 104.	Three hours. 11

G183 INDETERMINATE STRUCTURES II. (3-0) Three hours. 1 or II Continuation of 181 with applications to analysis of statistically indeterminate structures starting with a brief review and proceeding to the analysis of indeterminate trusses, continuous trusses, and building frames.

Prerequisite: 181.

184 ENGINEERING CONSTRUCTION. (3-0) Three hours. II Foundations of structures, characteristics of soils, tunnelling, and construction methods.

Prerequisite: Mechanics of Materials (M.M. 131).

ENGINEERING, ELECTRICAL

Professor McKee; Associate Professors Hoilman, Mosher and Smith; Assistant Professor Shorey; Mr. Ksiazek

21 ELECTRIC AND MAGNETIC CIRCUITS. (5-0) Prerequisite: credit or enrollment in Math. 21.	Five hours. 1
22 DIRECT CURRENT MACHINES. (5-0) Prerequisite: 21.	Five hours. 11
24 ELECTRICAL LABORATORY I. (0-3) Prerequisite: 21.	One hour. 11
101-102 ELECTRICAL CIRCUITS AND MACHINES. (3-3) Prerequisite: Math. 22; Physics 11-12.	Four hours. 1, 11
103-104 ALTERNATING CURRENT CIRCUITS. (5-0, 3-0 Five bours. 1.) Three hours. 11
Prerequisite: 21; Math. 22.	
105-106 ELECTRICAL LABORATORY II. (0-3) Prerequisite: 22, 24; credit or enrollment in 104 for 1	One hour. 1, 11 06.
107-108 ALTERNATING CURRENT MACHINES. (4-0) Prerequisite: 104.	Four hours. 1, 11
110 ELECTRONICS. (3-3) Prerequisite: 102 or 103.	Four hours. 11
111-112 ELECTRICAL LABORATORY III. (0-6) Prerequisite: 106 and credit or enrollment in 107-108.	Two hours. 1, 11
113 POWER TRANSMISSION. (3-0) Prerequisite: 104.	Three hours. 1
115 COMMUNICATION CIRCUITS. (3-3) Long lines in steady state, networks, and loading. Prerequisite: 104.	Four hours. I

Electrical, Mechanical Engineering

Four hours. 1 G117 INDUSTRIAL ELECTRONICS. (3-3) A continuation of 110, with emphasis on control and power applications. Prerequisite: 110. Three hours. 11 118 POWER STATIONS. (3-0) The electrical engineering features of steam, water, and oil engine power plants. Prerequisite: 107 or 102. Four bours. II G120 TRANSIENT PHENOMENA. (3-3) The mathematical development of common voltage and current transients with experimental check by means of the oscillograph. Prerequisite: 104. 121-122 RADIO COMMUNICATION. (3-3) Four bours. I. II Fundamental principles of radio transmitting and receiving systems. Prerequisite: 104, 110. Three hours. 1.11 G123, 124 SPECIAL TOPICS. (2-3)Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines, or systems. Prerequisite: 22, 104. Three hours, 11 G126 POWER SYSTEMS. (3-0) Machine transients, transient stability of power systems, wave propagation, lightning, and relaying. Prerequisite: 113. Four hours. 11 G128 U. H. F. CIRCUITS. (3-3) Circuits and techniques for use at ultra-high frequencies. Prerequisite: 121. 129-130 GENERAL ELECTRICAL ENGINEERING. (3-3) Four hours. I, II Courses in circuits and machines adapted to the needs of Agricultural

Engineers. Prerequisite: Physics 11-12; Math. 11-12.

ENGINEERING, MECHANICAL

Professor Sidle; Associate Professor Tuthill; Assistant Professors Carpenter, Duchacek, Paquet; Messrs. Kenfield[†], Marshall, and Thompson

Three hours. I. II

1-2 ENGINEERING DRAWING. (0-9)

1 Principles and practice in use of drawing equipment; freehand lettering and sketching; geometric constructions; orthographic projection; dimensioning; sections, con-

† On military leave.

ventions, and auxiliary views; piping, welding and electrical symbols; ink tracing; charts and graphs.

2 Fundamentals of descriptive geometry; theoretical and practical approach to pictorial drawing (isometric, dimetric, trimetric, oblique, perspective); working drawings; intersections and developments.

3-4 ENGINEERING PROBLEMS. (0-3) One hour. 1, II The nature of engineering principles and the kinds of work done in. the fields of engineering. Development of skill and systematic methods in the solution of problems related to engineering. Enrollment restricted to freshman engineering students.

51-52 MANUFACTURING PROCESSES. (1-3) Two bours. I. II

51 Principles of metal machining.

52 Advanced machining; casting; welding; methods, jigs, fixtures, tooling, and gauges for interchangeable manufacturing. Prerequisite: 2.

81 ELEMENTS OF MECHANICAL ENGINEERING. (2-3) Three hours. 1 An introductory course in mechanical engineering problems and power generation machinery. Laboratory work on mechanical measurements. Prerequisite: Chemistry 2.

101 INDUSTRIAL METALLURGY. (3-3) Four hours. 1, 11 The fundamentals of ferrous and non-ferrous physical metallurgy; correlation of metallographic structure and physical properties with heat-treatment and with the uses of allovs. Prerequisite: Chemistry 2; Physics 12.

111 THERMODYNAMICS. (3-3)

Four bours. 1 The fundamental principles of engineering thermodynamics and the application of these principles to thermodynamic cycles, prime movers, compressors, refrigeration, and heat transfer. Primarily for mechanical engineering students.

Prerequisite: 81; Physics 11; Math.-Mech. 22, and concurrent enrollment in Math.-Mech. 25.

113 THERMODYNAMICS FOR ELECTRICAL ENGINEERING STUDENTS. (3-0)Three hours. 1

The fundamental principles of engineering thermodynamics and the application of these principles to thermodynamic cycles, prime movers, compressors, and heat transfer. Primarily for electrical engineering students.

Prerequisite: Physics 11; Math. 22, and concurrent enrollment in Math.-Mech. 25.

116 POWER ENGINEERING. (3-3)

Four bours. п

A short course in the fields of steam and internal combustion engine power. Mechanical, thermodynamic, and economic analysis of the design, operation, and performance of characteristic equipment and stations.

Prerequisite: 111 or 113.

132 KINEMATICS. (3-3)

Four bours. n The analysis of displacements, velocities, and acceleration in machines and the application of such analysis to cams, gears, and other mechanisms.

Prerequisite: 2; Math.-Mech. 25.

Four bours. II 142 FLUID MECHANICS. (3-3) The mechanics of fluids at rest and in motion. Prerequisite: 111 or 113; Math.-Mech. 25.

143 MECHANICAL ENGINEERING LABORATORY. (0-3) One hour. 1 Experiments to verify thermodynamic principles. Lubricant tests, and calorific tests of fuels and steam. Prerequisite: 111 or 113 concurrently.

- 151, 152 MACHINE DESIGN. (3-3)
 - 151 Analysis of stresses in machine parts and design of machine elements considering stresses, deflections, and wear.

152 Continuation of 151 with applications to the design of a complete machine. Prerequisite: 132 and Math.-Mech. 131 for 151; 151 for 152.

G155 MECHANICAL VIBRATIONS.

An advanced course in the field of machine design with special emphasis on problems of vibrations. Topics include causes of vibrations, methods of study of vibratory motion, determination of vibration stresses, and methods of balancing and damping. Elective (M.E.) seniors by permission.

Prerequisite: 151.

Four hours. 1 161 POWER PLANTS. (3-3) Principles of the design, installation, operation, and performance of power plant equipment. Prerequisite: 111.

Four bours. II 164 INTERNAL COMBUSTION ENGINES. (3-3) The thermodynamic and mechanical principles of the design, operation, and performance of internal combustion engines. Prerequisite: 111.

G165 ADVANCED HEAT ENGINES. Three hours. Ior II Advanced study in theoretical thermodynamics with applications in specific types of heat engines according to the interests of the students. Elective (M.E.) seniors by permission. Prerequisite: 111.

Four bours. 1, 11

Three hours. I or 11

The College of Technology

Three bours. 1 171 INDUSTRIAL ENGINEERING. (2-3) The principles of management and their applications to industrial organizations and operations. Prerequisite: 52.

172 FACTORY PLANNING. (1-6)

The systematic analysis of the requirements of a factory for a specific purpose. Work includes the consideration of such items as location, plant design, equipment requirements, general layout, and production planning.

Three hours. n

Four bours. 1

Three hours. II

Two hours. II

Prerequisite: 171.

175 TIME AND MOTION STUDY. (3-3) Four bours. 1 Principles and methods of making time and motion studies and time formula construction. For students in the Commerce Curriculum only.

Prerequisite: Economics 144.

Four bours. II 176 PLANT ORGANIZATION. (2-6) Analysis of plant requirements as to location, equipment, layout, and production scheduling. For students in the Commerce Curriculum only. Prerequisite: Economics 143.

181 AIR CONDITIONING. (3-3)

The applications of the fundamental principles of thermodynamics to the design and performance of air conditioning equipment and systems for residences, public buildings, and industrial plants. Prerequisite: 111 or 113.

182 AERODYNAMICS. (3-0)

The application of the principles of fluid mechanics to the design and performance of aircraft. Prerequisite: 142.

G185 HYDRAULIC MACHINES.

Three hours. I or II An advanced study in fluid mechanics applied to hydraulic machines. Elective (M.E.) seniors by permission. Prerequisite: 142.

192 SEMINAR. (2-0)

Discussions of the Mechanical Engineering profession, the ethics, responsibilities, and status of members of the profession, and timely activities of present-day practice. Current issues of pertinent publications are used as collateral reading and as guides in the study and discussion of contemporary progress in the field. Prerequisite: senior standing.

195 SPECIAL PROBLEMS.

Three hours. I or H A study and investigation on a topic or problem of special interest to the student. Formal submission of results in thesis form required.

Mathematics and Mechanics

Problems must be approved by the Chairman of the Department before election of the course. Elective (M.E.) seniors by permission.

Three hours. 1 or 11 G201 ADVANCED MACHINE DESIGN. Advanced mechanics of materials and applications to mechanical design according to the interests of the student. Prerequisite: 152.

Three hours. I or II G203 BALANCING OF MACHINERY. A theoretical study of balancing problems and discussion of balancing machines.

Prerequisite: 152.

G205 NOMOGRAPHY.

Graphical and mechanical computing methods, alinement charts, and nomographs.

Prerequisite: Calculus.

G221 THESIS RESEARCH.

Credit as arranged. 1, 11 For graduate students in Mechanical Engineering. Results of research must be submitted in triplicate in bound form.

* MATHEMATICS AND MECHANICS

Professors Bullard and Fraleigh; Associate Professors Kimball and Larrivee; Assistant Professors Fishback, Millington, Nicholson and Simond; Mr. Erdody

SPECIAL REQUIREMENTS FOR CONCENTRATION (LIBERAL ARTS CURRICU-LUM): 21-22 and two advanced courses in mathematics. The related courses are chosen in consultation with the department. B SOLID GEOMETRY. No credit. 1

Required of those enrolling in engineering who do not present solid geometry for entrance. Elective to others.

1, 2 FRESHMAN MATHEMATICS.

For students who do not intend to concentrate in science or mathematics. (See also 11, 12.)

1 Elementary College Algebra 2 Plane Trigomonetry Prerequisite: 1 for 2.

4 MATHEMATICS OF FINANCE.

Three hours, 11

Three hours, I, II

The mathematical theory of finance applied to interest and investments, annuities, and life insurance. Prerequisite: 1.

* Not all courses are offered every year. Students who plan to elect any course beyond 21-22 should consult the department in advance as to when such courses will be offered.

Three hours. 1 or 11

The College of Technology

Five bours. I. II 11, 12 FRESHMAN MATHEMATICS. For students who intend to concentrate in science or mathematics. 11 College algebra, plane trigonometry. 12 Spherical trigonometry, plane and solid analytical geometry. Prerequisite: 11 or 2 for 12. Three hours. I, II 21-22 CALCULUS. The fundamentals of differential and integral calculus and applications to other sciences, with emphasis on the technique of differentiation and integration and the use of calculus in problems of mathematics and physics. Prerequisite: 12. 24 THEORETICAL MECHANICS (STATICS). Three hours. п The fundamental concepts, the resultant of a force system by graphical and analytical methods, conditions of equilibrium with application to cranes, trusses, and flexible cables, center of gravity, moment of inertia. Prerequisite: 22 or concurrent enrollment in 22. 25 THEORETICAL MECHANICS (KINETICS). Three hours. 1, 11 The equations of motion of a body under the action of a force system, the principles of work and energy, impulse and momentum. Prerequisite: 22, 24. 31 GENERAL ASTRONOMY. Three hours, 1 An elementary course intended to acquaint the student with the basic facts of astronomy. The course includes a study of the history of astronomy, the solar system and stellar astronomy, time and calendar, and a brief survey of astrophysics. Prereauisite: 12 or 3. Three hours. 1, 11 G101-102 HIGHER ALGEBRA. An introduction to the fundamental concepts of modern higher algebra; in particular, matrices, polynomials, groups, rings and fields, with application to the theory of vector spaces and quadratic forms. Prerequisite: 22. G105-106 PROJECTIVE GEOMETRY. Three hours. 1, 11 Study of the projective transformations and the associated geometries by both synthetic and analytic methods. Prerequisite: 22. G107-108 ADVANCED CALCULUS. Three hours. 1, 11 A critical study of the calculus beginning with limits, continuity, differentiation, and Riemann integrals, together with a treatment of those topics not included in the earlier course as a foundation for more advanced courses in analysis and applied mathematics. Prerequisite: 22.

Mathematics and Mechanics

G109-110 MODERN GEOMETRY.

Differential geometry, foundations of geometry, algebraic geometry and topology.

Prerequisite: 22 and 106.

G111, 112 DIFFERENTIAL EQUATIONS.

111 Solution of ordinary differential equations, introducing operational methods. 112 Solution of partial differential equations; series solutions; topics of analysis

especially useful in mathematical physics and engineering. Prerequisite: 22; 111 for 112.

G113-114 FUNCTIONS OF A COMPLEX VARIABLE. Three hours. 1.11 An elementary study of one complex variable, differentiation and integration, singularities, Riemann surfaces, analytic continuation, etc. Prerequisite: 108.

G116 INFINITE SERIES.

Convergent series of constant and of variable terms, uniform convergence, continuity of the sum function, differentiation and integration, and theory of summability.

Prerequisite: credit or concurrent enrollment in 107-108.

G118 MATHEMATICAL STATISTICS.

A study of frequency distributions including the calculation of moments, standard deviations and related quantities, the theory of least squares and its application to scientific problems, the chi-square test and Student's t-test with a discussion of the validity of statistical results. Prereauisite: 22.

G120 VECTOR ANALYSIS.

An introduction to vector methods including the elements of vector algebra and vector calculus with applications to vector physics and mechanics.

Prerequisite: 108 or 112.

G131 MECHANICS OF MATERIALS.

The behavior of elastic bodies, with particular attention to the beam, shaft and column, including simple stress and strain, combined stresses, the elastic curve and strain energy.

Prerequisite: 22, 24.

G201-202 THEORY OF FUNCTIONS.

The functions of real variables, including such topics as point sets and measure, transfinite numbers, Riemann and Lebesgue integrals, sequences of functions. Considerable outside reading is assigned. Prerequisite: 108.

G203-204 RESEARCH.

Credit as arranged Original investigation intended to culminate in a Master's thesis. Required of graduate students in mathematics seeking the Master's degree.

103

Three hours. 1, 11

Three hours. 1, 11

Three hours. 11

Three hours. I

Three hours. II

Three hours. 1, 11

Three hours. 1, 11

The College of Agriculture performs four public functions: it teaches resident students; it investigates problems; it disseminates information; it renders related services. These four lines of work are carried out respectively by the resident teaching division; the research division, or Vermont Agricultural Experiment Station; the extension division, or Vermont Agricultural Extension Service; and the related services division.

The resident teaching division offers professional curricula in Agriculture and Home Economics. It aims to provide for young men and women educative experiences which will enable them to become successful farmers or homemakers, teachers in secondary schools or agricultural extension workers, or specialists engaged in teaching, research, or industrial or professional work in their chosen fields.

The Agricultural Experiment Station has as its essential functions to conduct research in Agriculture and Home Economics, to administer certain regulatory statutes, and to publish the results of such work.

The Vermont Agricultural Extension Service is a cooperative undertaking of the State of Vermont, the College of Agriculture, the United States Department of Agriculture, and the several counties of the State. It has a State staff, with headquarters at the University, and a staff of county extension agents in each county. Its purpose is "to aid in diffusing among the people . . . useful and practical information on subjects relating to agriculture and home economics, and to encourage the application of the same." It works primarily with the rural people of the State, including both adults and children.

The related services division renders various services in the fields of agriculture and home economics, such as inspection of feed, seeds, and fertilizer; analysis of soils, milk, and other agricultural products on request; diagnosis of diseases of plants, poultry, and other livestock; and conduct of short courses and educational conferences.

AGRICULTURE

THE CURRICULA IN AGRICULTURE

In Agriculture there are the General Agricultural and Agricultural Engineering Curricula and the Pre-Forestry and Pre-Veterinary programs. Each freshman on entering the college must choose one of these. Each includes required and elective courses. Basic courses are required in the sciences, literature, and subjects essential in providing a broad educational

The Curricula in Agriculture

foundation for the more technical courses. Courses required in the major field are largely in applied science and technology. The electives may be chosen from courses offered throughout the University.

THE GENERAL AGRICULTURAL CURRICULUM

The General Agricultural Curriculum, leading to the degree of Bachelor of Science in Agriculture, requires 130 semester hours of required and elective courses, exclusive of those in Military Science and Physical Education. The courses in Agriculture are designed to provide training of a general nature as preparation for farming, secondary school teaching, or county extension work, as well as concentrated study, as preparation for industrial and professional positions or for advanced training, in one of the following fields: agricultural economics, agricultural education and extension, agronomy, botany, dairy manufacturing, dairy production, horticulture, or poultry husbandry.

In each of these fields, to provide a well-balanced and integrated educational program and to insure reasonable concentration, a sequence of courses is prescribed which includes a minimum of required courses and makes allowance for the election of additional subjects. The faculty advisor for each major sequence will counsel the student in the selection of these elective courses. A total of eighteen credit hours is normally considered a maximum enrollment.

As part of the preliminary registration program an English placement test is given, on the basis of which a few students are excused from the freshman course in English. Such students substitute another course, normally in English.

All students in the General Agricultural Curriculum take a uniform program during the first year, and, in addition, a second year of English, one year of Principles of Economics, and one semester of Public Speaking.

Before the end of the freshman year each student indicates to the Dean the major sequence which he expects to follow in completing the requirements for his degree.

2nd

1 st

OUTLINE OF GENERAL AGRICULTURAL CURRICULUM

FRESHMAN YEAR

A MALLIN I BLIK	130	, Lina
	SEME	STER
English Composition	3	3
Mathematics I		3
Introductory Botany		••• ·
Introductory Chemistry	4	4
Agricultural Survey	. 1	1
†Electives	3-6	47
Military Science (Men)	2	2
Physical Education	(1)	(1)
Hygiene (Women)	(1)	(1)

t The courses listed below for the designated sequences will be taken in the freshman year in addition to those prescribed above.

Agricultural Education and Extension General Horticulture Public Speaking

Dairy Manufacturing and Dairy Production General Dairying Public Speaking

The Curricula in Agriculture

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

SOPHOMORE YEAR

1st 2nd SEMESTER

Si	EMI	ESTER
Agricultural Cooperation	2	
English	3	3
General Dairying		
General Field Crops	3	
Livestock		2
General Poultry Husbandry	3	
General Soils		3
Principles of Economics	3	3
Electives		4-7
Military Science (Men)	2	2
Physical Education	(1)	(1)

UNIOR YEAR	st	2n d
S	емі	ESTER
General Horticulture	3	
Marketing Farm Products		3
Public Speaking		3
Rural Sociology		
Woodland Management		3
Electives	6-9	6-9

SENIOR YEAR 1:	st	2nd
SE	M	ESTER
Farm Credit		3
Farm Management		
Public Problems of Agriculture	•••	3
Electives	-1:	56-9

AGRICULTURAL EDUCATION AND EXTENSION

SOPHOMORE YEAR

lst	2nd
SEM	ESTER

Periodical Writing	3	
Expository Writing	,	3
General Bacteriology	•	3
General Dairying	3	
General Farm Engineering	3	3
General Soils		3
Principles of Economics	3	3
Intro. Zoology	4	
Electives	0-2	2 0-3
Military Science (Men)	2	2
Physical Education		

JUNIOR YEAR 1st 2nd SEMESTER *Extension Methods 2 Farm Management 3 General Field Crops 3 General Psychology 3 Marketing Farm Products 3 Rural Education 3 Woodland Management 3 Electives 0-3 1-4

NIOR YEAR

1st 2nd SEMESTER

†Adult Education		3
*Extension Methods		2
†Farm Shop	3	
Feeds and Feedings	3	
General Poultry	3	
Milk Production	3	••
Phil. of Amer. Agriculture	3	
†Vocational Methods and		
Practice Teaching		10
Electives0-	-3	0-16*

* For Agricultural Extension only.

† For Agricultural Education only.

AGRONOMY, BOTANY AND HORTICULTURE

SOPHOMORE YEAR 1st 2nd (For All Three Sequences) SEMESTER
Sophomore English
Introductory Physics
Outline of Organic Chem
General Bacteriology
General Horticulture (Hort.) 3
or General Soils (Agron.)
or Morphology (Botany)
Plant Propagation (Hort.) 2
Intro. to Zoology 4
Electives
Military Science (Men) 2 2
Physical Education (1)(1)

AGRONOMY, JUNIOR YEAR 1st 2nd SEMESTER

Biological Statistics		3
Forage & Pasture Crops	•••	3
Plant Physiology	5	
Principles of Economics	3	3
Public Speaking		3
Soils and Soils Management	4	
Electives	3-6	3-6

AGRONOMY, SENIOR YEAR 1st 2nd SEMESTER

Field Crop Imp. and Mgmt.	3	
Agronomy Seminar		1
Farm Management	3	3
Soil Conservation		3
Electives		

*BOTANY, JUNIOR YEAR	1st	2nd
2010 - 10 - 10 - 10 - 10 - 10 - 10 - 10	SEM	ESTER
Genetics		
Introductory Physics		
Plant Physiology	5	
Principles of Economics		3
Public Speaking		3
Electives		
*BOTANY, SENIOR YEAR		
	SEM	ESTER
Fungi	4	
Taxonomy		3
Electives1	1-14	2-15
†HORTICULTURE, JUNIOR YEAR	1st	2nd
		ESTER
Horticulture Seminar		1
Horticultural Science	•••••	3
Plant Pathology	4	•••
Plant Physiology		
Principles of Economics		
Public Speaking		3
Electives	3-(5 5-8
†HORTICULTURE, SENIOR		
YEAR	1st	2nd

SEMESTER

	i Hort. Sem.			1
General	Entomology		4	
Genetics			3	
Electives		8-1	11	4-17

* Education in Botany depends on the discipline of other sciences. The student is expected to broaden his scientific experience with courses in other departments.

† Three fields of specialization are possible during the junior and senior years: Fruit Growing, Vegetable Growing, and Ornamental Horticulture.

The Curricula in Agriculture

DAIRY MANUFACTURING DAIRY PRODUCTION

SOPHOMORE YEAR

1st 2nd SEMESTER

Dairy Chemistry and Testing		4
English	3	3
General Bacteriology		3
Outline of Organic Chem.		
Principles of Economics	3	3
Intro. to Zoology		
Electives	-3	2-5
Military Science (Men)		
Physical Education	1)	(1)

JUNIOR YEAR

lst	2nd
SEMI	ESTER

Dairy Bacteriology	3	
Dairy Plant Engineering or		
Condensed Milk, etc.		2-3
Ice Cream or Butter, Cheese		
and Casein		
Introductory Physics	3	3
Judging Dairy Products		2
Market Milk		2
Principles of Accounting	3	3
Electives		

SENIOR YEAR

lst	2nd
SEMI	STER

Agricultural Cooperation	2	
Butter, Cheese, and Casein or		
Ice Cream	3	•••
Condensed Milk, etc. or Dairy		
Plant Engineering		3-2
Feeds and Feeding	3	
Marketing Farm Products		3
Milk Production	3	
Seminar		1
Electives		

SOPHOMORE	YEAR	1 51

lst	2nd
SEMI	ESTER

Dairy Chemistry and Testing	4
English	3
General Bacteriology	3
Livestock	2
Outline of Organic Chem 5	
Principles of Economics	3
Intro. to Zoology 4	•••
Electives	0-3
Military Science (Men) 2	2
Physical Education (1)	(1)

JUNIOR YEAR

Ist 2nd SEMESTER

Anatomy and Physiology	2	•
Forage and Pasture Crops	•••	3
Animal Nutrition		2
Dairy Bacteriology	3	
Diseases of Farm Animals		2
Feeds and Feeding		
General Field Crops	3	
General Soils		3
Introductory Physics	3	3
Electives	1-4	2-5

SENIOR YEAR

1st 2nd SEMESTER

Farm Management	3	3
Animal Breeding		3
Livestock Production	3	
Market Milk	2	••••
Marketing Farm Products		3
Milk Production	3	•••
Seminar		1
Electives	4-7	5-8

POULTRY HUSBANDRY

SOPHOMORE YEAR	lst	2nd
	SEM	ESTER
English	3	3
General Bacteriology		3
General Poultry Husbandry	3	•••
Incubation and Brooding or		
Poultry Sanitation and		
Disease Control		4
Introductory Physics	3	3
Outline of Organic Chem	5	•••
Principles of Economics	3	3
Military Science (Men)	2	2
Physical Education	(1)	(1)

JUNIOR YEAR	lst 2nd
	SEMESTER
Pasture and Forage Crops	3
Poultry Feeding or Processing	
and Packaging Poultry Proc	1 -
ucts	4-3
Poultry Housing	2
Poultry Sanitation and Disea	
Control or Incubation and	
Brooding	4
Public Speaking	3
Electives	.11-15 3-6
SENIOR YEAR	1st 2nd
· · · · · · · · · · · · · · · · · · ·	SEMESTER
Anatomy and Physiology	2
Farm Management	
Processing and Packaging	
Poultry Products or Poultr	y
Feeding	3-4

6-10 12-15

1st 2nd

THE AGRICULTURAL ENGINEERING CURRICULUM

Electives .

The Agricultural Engineering Curriculum, leading to the degree of Bachelor of Science in Agricultural Engineering, requires 130 semester credit hours of work, exclusive of courses required in Physical Education and Military Science, and includes elective courses. It provides students with an educative experience in engineering, particularly as applied to the rural field. The curriculum, the instructional staff, and the course content are jointly approved by the Dean of the College of Technology and the Dean of the College of Agriculture.

OUTLINE OF AGRICULTURAL ENGINEERING CURRICULUM

3

5

3

2

THE FRESHMAN YEAR

Elective

Freshman Math. 5

Physical Education (1) (1)

Military Science (Men) 2

1st	2nd
SEM	FST'ER

	SEM	ESTER
Calculus	3	3 -
General Physics	5	5
Statics		3
Expository Writing		3
Principles of Economics	3	3
Surveying	4	
Elements of Mech. Engineering	. 3	

Military Science (Men) ____ 2 2 Physical Education(1)(1)

THE SOPHOMORE YEAR

* Students exempted from this course on the basis of the placement test may substitute another course, normally in English.

The Curricula in Agriculture

1st 2nd

THE SENIOR YEAR

THE JUNIOR YEAR

- ·	SEMI	ESTER
General Dairying	3	
*Fluid Mechanics		4
Kinetics	3	
Mechanics of Materials		3
Thermodynamics	4	
Farm Structures or		
Field Machinery		3
Power Machinery or		
Farm Utilities	3	
Farm Shop or Soil & Water En	L-	
gineering or General Elec. En	L	
gineering		
General Soils		3
Elective	0-2	2-0
Or Hydraulics, C.E. 161 and 1	63.	

	SEM	ESTER
Field Machinery or		
Farm Structures		3
Farm Utilities or Power		
Machinery	3	
Farm Shop or General Elec.		
Engineering or Soil and		
Water Engineering	.3-4	3-4
Farm Management	3	3
Public Speaking		3
Poultry Husbandry	3	
†Seminar	1	1
Elective	2-5	2-5

* Or Hydraulics, C.E. 161 and 163. + In junior or senior year as offered.

THE PRE-FORESTRY PROGRAM

The Pre-Forestry Program provides the first two years of a four-year professional forestry curriculum leading to the degree of Bachelor of Science in Forestry. The last two years of course work must be taken at some institution which confers this degree. The program may be adjusted to meet the requirements of different Forestry schools.

English composition for one year is required for transfer to a professional school. Exemption from English Composition on the basis of the English Placement test cannot be granted for this program.

OUTLINE OF PRE-FORESTRY PROGRAM

FRESHMAN YEAR

4

SEMESTER

THE SOPHOMORE YEAR 1st 2nd

1st	2nd
SEM	ESTER

Algebra, Plane Trigonometry	3	3
Dendrology	1	3
Elements of Forestry		3
English Composition	3	3
Introductory Botany	4	•*•
Introductory Geology	4	4
Mechanical Drawing	3	•••
Electives	•••	0-2
Military Science (Men)	2	2
Physical Education	1)	(1)
Hygiene (Women)		

Dendrology		2
Expository Writing		3
General Chemistry	4	4
Introductory Physics	3	3
Introduction to Zoology	4	
Principles of Economics	3	3
Surveying	4	
Elective		0-3
Military Science (Men)	2	2
Physical Education		

111

1st 2nd

THE PRE-VETERINARY PROGRAM

The Pre-Veterinary Program provides preparation for entrance to veterinary colleges. The program may be adjusted to meet the requirements of different veterinary colleges.

OUTLINE OF PRE-VETERINARY PROGRAM

FRESHMAN YEAR 1st 2r SEMEST	
Agriculture Survey 1 1 *English Composition 3 3 General Chemistry 4 4 Introduction to Zoology 4 4 Introductory Botany 4 4 Mathematics 1 3 3 Vertebrate Zoology 4 4 Elective 0-2 0- Military Science (Men) 2 2	General Entomology 4 Introductory Physics 3 3 Organic Chemistry 4 4 Public Speaking 3 Survey of American History or American Government 3 3 Elective 1-4 2-5 Military Science (Men) 2 2
Physical Education (1) (1) Hygiene (Women) (1) (1)	

* Students exempted from this course on the basis of the placement test may substitute another course, normally in English.

COURSES OF INSTRUCTION

AGRICULTURE

1-2 AGRICULTURE SURVEY. (1-0) One hour. I, II Designed to develop a broad concept of the field of agriculture. The organization and functioning of the College of Agriculture; history and status of Vermont agriculture; nature, content, and interrelation of different pursuits in the agricultural field and agricultural industries.

The Dean and the Staff

AGRICULTURAL BIOCHEMISTRY

Professor Little; Assistant Professor Johnstone

72 CHEMISTRY OF FOODS. (1-4)

Three hours. п

General discussion of foodstuffs with quantitative chemical analysis of milk, edible fats and oils, carbohydrate foods, proteins, and tests for preservatives and adulterants.

Prerequisite: Chemistry 31-32 or 35.

Mr. Little

Agricultural Biochemistry, Agricultural Economics 113

73 ELEMENTARY BIOCHEMISTRY. (2-2) Three hours. 1 Introduction to the chemistry of living matter. Chemistry and metabolism of essential constituents of food: carbohydrates, proteins, fats, vitamins. Mr. Little

Prerequisite: Chemistry 31-32 or 35.

Three hours. II

G150 PLANT BIOCHEMISTRY. (3-0) An intensive study of the chemical content of and changes in living plant tissues to include carbohydrates, proteins, fats, lignin, plant pigments, nitrogen metabolism and photosynthesis.

Prerequisite: Chemistry 35 or 31-32.

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

AGRICULTURAL ECONOMICS

Professors T. M. Adams and Carter; Assistant Professor Story*; Messrs. England, Metz and F. C. Webster

Two bours. 1 21 AGRICULTURE COOPERATION. (2-0) The nature and development of cooperative business enterprises, their organization, financing, and business management. Prerequisite: sophomore standing. Mr. England

G101-102 FARM MANAGEMENT. (2-2) Three hours. I. II The organization and operation of a successful farm business. Prerequisite: Economics 11-12. Mr. Metz

G103 RURAL SOCIOLOGY. (3-0) Three hours. 1 A survey of rural organization in terms of social grouping and of the

physical, psychological, and social controls. Considerable time is given to problems of the rural community.

Prerequisite: Economics 11-12 or permission of the department.

G104 MARKETING FARM PRODUCTS. (2-2) Three hours. II The distribution of Vermont farm products and the problems involved.

Prerequisite: Economics 11-12.

* On leave, 1951-52.

Mr. Webster

Mr. Carter

Mr. Little

G106 PUBLIC PROBLEMS OF AGRICULTURE. (3-0) Three hours. II Price fluctuations as they affect farming, agricultural legislation, land use, costs of local government, and other problems of contemporary interest to farmers.

Prerequisite: Economics 11-12.

108 FARM CREDIT. (2-2)

The types and sources of credit used by farmers, and the lending practices and problems of credit agencies. Appraisal of farm real estate and personal property.

Prerequisite: Economics 11-12.

G151, 152 RESEARCH METHODS. (3-0) Three hours. 1, 11 Efficient procedures for students engaged in scientific research.

Prerequisites: Economics 11-12; senior standing and permission of the department. Mr. Carter

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

AGRICULTURAL EDUCATION

Messrs. Davison. Cushman and Woodhull*

- 101 RURAL EDUCATION. (2-2) Three hours, 1 The organization of rural education with consideration of the duties and responsibilities of the rural teacher. Prerequisite: junior standing. Mr. Cushman
- Two bours. II 102 EXTENSION METHODS. (1-2) Methods and technique of extension teaching. (Offered in alternate years, 1953-54.)

Prerequisite: junior standing.

G150 VOCATIONAL METHODS AND PRACTICE TEACHING. Ten hours. II Methods of teaching vocational agriculture, with consideration of program planning and organization. Part of the semester will be devoted to practice teaching in an approved high school department under the supervision of a critic teacher. Mr. Cushman

Prerequisite: 101; senior standing.

* On leave.

114

Mr. Metz

Mr. Carter

Three hours. II

Mr. Davison

Agricultural Education, Agricultural Engineering 115

Three hours. II G152 ADULT EDUCATION. (2-2)The principles underlying successful programs of adult education. Determination of needs, program planning, and organization of units on selected programs. Mr. Cushman

Prerequisite: 101; senior standing.

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

AGRICULTURAL ENGINEERING

Associate Professor Schneider; Assistant Professor Jones

1, 2 GENERAL FARM ENGINEERING. (3-0) Three hours. 1, 11 An introductory course including units on gas engines, farm structures, concrete, farm water supply, electricity, refrigeration, and farm Mr. Schneider machines.

22 POULTRY HOUSING. (1-2)

Instruction in design and construction of poultry houses to be taught in the Department of Agricultural Engineering; instruction in layout and equipment to be given in the Department of Poultry Husbandry. (Offered in alternate years, 1953-54.)

Prerequisite: sophomore standing.

41 FARM SHOP. (0-6)

Instruction in woodworking, hot and cold metal working, sheet metal, welding, concrete work, and tool fitting, including demonstrations and methods of teaching these operations. Problems in shop care, layout, safety, and selection of equipment.

Prerequisite: junior standing.

43-44 SEMINAR. (1-0)

Review and discussion of current agricultural engineering research, student reports and studies of agricultural engineering problems. (Offered in alternate years, 1952-53.) Prerequisite: junior standing.

101 FARM UTILITIES. (2-2)

The theory and application of water systems and plumbing; sewage disposal and refrigeration. (Offered in alternate years, 1952-53.) Prerequisite: Physics 11-12. Mr. Jones

Mr. Schneider

Two hours. 11

Three hours. 1

Mr. Schneider

One hour. 1, 11

The Staff

Three hours. 1

The theory, design, operation and maintenance of field machinery. (Offered in alternate years, 1953-54.) Prerequisite: Physics 11-12, Math. 25. Mr. Jones	
103 FARM POWER MACHINERY. (2-2) The theory, design, operation, and maintenance of tractors and their engines. (Offered in alternate years, 1953-54.) Prerequisite: M. E. 111. Mr. Jones	
104 FARM STRUCTURES. (2-2) Three hours. In The design of farm structures; materials, structural requirements, functional requirements; insulating, heating, and ventilating. (Offered in alternate years, 1952-53.) Prerequisite: Math. 131. Mr. Jones	
106 SOIL AND WATER ENGINEERING. (2-2) Three hours. II The engineering problems involved in the application of hydrologic and agronomic data to the design, location, and construction of farm ponds, drainage and irrigation systems, and erosion control facilities. (Offered in alternate years 1953-54.)	

Prerequisite: Agronomy 2, Civ. Engrg. 161 or Mech. Engrg. 142, Physics 11-12. Mr. Jones

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

Three bours. II

Thurso how

AGRONOMY

Professor Midgley; Associate Professor Wood; Assistant Professor Kellv*; Mr. Way

1 GENERAL FIELD CROPS. (2-2) Introduction to field crops common in Vermont and throughout the United States, including science, practice, and uses. Mr. Wood

2 GENERAL SOILS. (2-2)

Elementary principles of soil fertility and management. Mr. Way * On military leave.

Agronomy, Animal and Dairy Husbandry 117

21 FIELD CROP IMPROVEMENT AND MANAGEMENT. (2-2)
	Three hours. 1
Field crops other than forage and pasture; the theo producing, improving, and managing field crops. <i>Prerequisite:</i> sophomore standing.	ry and practice of Mr. Wood
22 FORAGE AND PASTURE CROPS. (2-2) Hay and pasture grasses, legumes, seeding mixtr and management.	<i>Three hours</i> . 11 ures, fertilization,
Prerequisite: sophomore standing.	Mr. Wood
23 SOILS AND SOILS MANAGEMENT. (3-2) The geology, physics, chemistry, and biology of soi <i>Prerequisite:</i> sophomore standing.	Four bours. 1 ls. Mr. Midgley
 101 FERTILIZERS. (2-0) Principles of plant nutrition, nutrient deficiency formulation, rates, and ratios for specific crops. (Of years, 1952-53.) Prerequisite: 2 or 23; junior standing. 	Two hours. 1 symptoms, grade ffered in alternate Mr. Way
G152 SOIL CONSERVATION. (2-2) Types of erosion and control measures; effect on conservation farming and land use.	Three hours. n general welfare; Mr. Wood
Prerequisite: senior or graduate standing.	
G162 AGRONOMY SEMINAR. (0-2) Prerequisite: 101; Agronomy senior or graduate stands of the department.	One hour. It ing, or permission The Staff

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

ANIMAL AND DAIRY HUSBANDRY

Professors Riddell and Newlander; Associate Professor Bradfield; Messrs. Fitzsimmons and Kinsman.

1 GENERAL DAIRYING. (2-3)

Three hours. 1

Introductory course in dairy cattle management and judging; quality milk production; Babcock test.

Messrs, Bradfield and Fitzsimmons

2 LIVESTOCK OTHER THAN DAIRY. (1-3) Types, breeds, and market classes.	Two hours. 11 Mr. Kinsman
22 JUDGING DAIRY PRODUCTS. (0-4) Quality, market standards, and scoring. Prerequisite: sophomore standing.	Two hours. π Mr. Bradfield
41, 42 MARKET MILK. (1-3) Quality production, processing, and distribution. <i>Prerequisite:</i> 41 for 42; junior standing.	Two hours. 1, 11 Mr. Bradfield
43 BUTTER, CHEESE, AND CASEIN. (1-6) Theory and practice. (Offered in alternate years, <i>Prerequisite:</i> junior standing.	Three hours. 1 1952-53.) Mr. Bradfield
44 ADVANCED STOCK JUDGING. (0-6) Judging, fitting and showing, with emphasis on dairy Prerequisite: 1. Messrs. Fitzsimmo	Two bours. 11 v cattle. ns and Kinsman
103 LIVESTOCK PRODUCTION. (2-3) Production and management of horses, sheep, swine, Prerequisite: 2.	Three bours. 1 and beef cattle. Mr. Kinsman
104 CHEMISTRY AND TESTING OF DAIRY PRODUCTS. (2 Chemical and physical properties of milk and Standard methods of analysis. <i>Prerequisite</i> : Chem. 1-2.	Four bours. 11
 105 FEEDS AND FEEDING. (2-3) Feeds, rations, and feeding practice. Prerequisite: junior standing. Messrs. Fitzsimmo 	Three hours. 1
G106 ANIMAL NUTRITION. (2-0) Nutrients, their function and utilization, and r growth, reproduction, lactation, etc. <i>Prerequisite:</i> 105; Chem. 31-32 or 35.	Two hours. п equirements for Mr. Newlander
G108 ANIMAL BREEDING. (3-0) Application of genetic principles to the breeding of f Prerequisite: senior standing or permission of the depa Messrs. Riddell a	rtment.
109 DAIRY BACTERIOLOGY. (1-4) Relation of micro-organisms to milk and milk produ examination and control. <i>Prerequisite:</i> Bot. 107.	<i>Three hours.</i> 1 acts, methods of <i>Mr. Newlander</i>

Animal and Dairy Husbandry, Animal Pathology 119

G111 ICE CREAM. $(2-3)$	Three hours. 1
Theory and practice. (Offered in alternate years, 1	953-54.)
Prerequisite: 104, 109*; junior standing.	Mr. Bradfield
G114 CONDENSED, EVAPORATED, AND DRIED MILK. (2-3	3) .
	Three hours. 11
Theory and practice. (Offered in alternate years, 19	
Prerequisite: 104, 109; junior standing.	Mr. Bradfield
116 DAIRY PLANT ENGINEERING. (1-2)	Two hours. п
Theory and practical problems in selection and use of	
ing equipment. (Offered in alternate years, 1952-53.	
Prerequisite: Physics 1; junior standing.	Mr. Bradfield
151 MILK PRODUCTION. (2-2)	Three hours. 1
Feeding and management of the dairy herd with emp able milk production.	phasis on profit-
Prerequisite: 105*; senior standing or permission of the	e department.
	Mr. Riddell
G160 SEMINAR. (0-1)	One hour. 11
Senior or graduate standing, or permission of the depar	tment.
	The Staff
SPECIAL STUDY	

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

ANIMAL PATHOLOGY

Associate Professor Bolton; Assistant Professor Durrell

 105 ANATOMY AND PHYSIOLOGY. (2-0) Two hours. I The various anatomical structures and their physiological functions. Prerequisite: Bot. 107; sophomore standing. Mr. Durrell
 106 DISEASES OF FARM ANIMALS. (2-0) Two hours. II The causes, symptoms, and prevention of diseases of farm animals. Prerequisite: 105; sophomore standing or permission of the department. Mr. Durrell

116 POULTRY SANITATION AND DISEASE CONTROL. (3-2) Four hours. II The causes, symptoms, and prevention of parasitic, infectious, and nutritional diseases of poultry. A discussion of the hygienic and sani-

* Prerequisite may be taken concurrently.

tary measures used in incubation, breeding, and rearing poultry will be given as indicated. Demonstrations and necropsies.

Mr. Bolton Prerequisite: Bot. 107; sophomore standing.

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

Four bours. 1

BOTANY

Professors Marvin and Gershoy; Associate Professors Dole, Sproston, and Taylor; Assistant Professors Johnstone and Raynor

1 INTRODUCTORY BOTANY. (2-4)

For science students. Fundamental principles of biology illustrated by the morphology, physiology, and reproduction of vascular plants. A study of forms and functions, leading to an understanding of the plant as a dynamic unit. Messrs. Taylor, Marvin, and Miss Raynor

3-4 GENERAL BOTANY. (2-4)

Four bours. 1, 11, s.s. An introductory course, primarily for general arts students. Structures and phenomena of growth and reproduction; origins and relationships of major plant groups; biological principles in relation to human culture and civilization. (Also offered in Summer Session, 4-1952, Mr. Dole 3-1953.)

10 FIELD BOTANY. (2-4)

A study of the morphology of the higher plants with emphasis upon the evolution of floral types; collections and identifications will be made from the local flora. The use of keys and manuals is an integral part of this course. The University herbarium of 260,000 plant specimens is available for reference. (Offered in the Summer Session only, 1953.)

Mr. Dole

Three hours. s.s.

101 GENETICS. (2-2)

Three hours. 1 Basic principles and theory of modern plant and animal breeding; elementary concepts of variation, inheritance, biometry, and cytogenetics. (No student may receive credit both for this course and for Zoology 115.)

Prerequisites: 1 or 3-4; Zool. 1; junior standing.

Mr. Gershov

Comparative study of the structure, reproduction, and phylogenetic

relationships of the major plant groups.	(Offered 1952-53.)
103 Algae, fungi, liverworts and mosses.	
104 Ferns and seed plants.	
Prerequisite: 1 or 3-4.	
105 ECONOMIC BOTANY. (2-4)	Four
The relation of plants to human hi	
Botanical and economic aspects of plan	nts used as sources

ry and contemporary life. used as sources of foods. drugs, and other products of importance in everyday living. (Offered in alternate years, 1953-54.) Mr. Taylor Prerequisite: 1 or 3-4.

107 GENERAL BACTERIOLOGY. (1-4)

103, 104 MORPHOLOGY. (2-3)

Principles and techniques employed in the study of micro-organisms, their isolation and culture with reference to human disease and public health; their importance to agriculture, industry and foods. Mr. Johnstone Prerequisite: 1 or 3-4 or Zool. 1; Chem. 1-2 or 4.

109 INTRODUCTORY PLANT PATHOLOGY. (2-4) Four bours. 1 Diagnosis, life history, and control of plant diseases caused by fungi, viruses, bacteria, and nematodes. Prerequisite: 1 or 3-4.

111 PLANT PHYSIOLOGY. (2-6)

Mechanisms of absorption, translocation, synthesis, and utilization of materials; the role of internal and external factors in growth. Prerequisite: 1 or 3-4; Chem. 1-2 or 4. Mr. Marvin

112 MICROTECHNIQUE. (1-6)

Preparation and study of microscopic biological material with emphasis on vegetative and reproductive cells and their modifications. Slide making techniques; optics in relation to the microscope. Miss Raynor Prerequisite: 1 or 3-4.

114 ECOLOGY. (2-2)

The concept of plant communities as an organism; endemism; invasion and succession in climax formations. Environmental factors of the habitat. Life forms. Ecological classification and nomenclature. (Offered in alternate years, 1953-54.) Prerequisite: 111. Mr. Dole

116 TAXONOMY. (1-4)

Three hours. II, s.s. Principles of classification: as exemplified in living plants and herbarium material. Significant phylogenetic schemes and modern systems of classification: the species concept; variation and discontinuity; specia-

The Staff Four bours. 1

Three hours. 1, 11

Mr. Sproston

Three hours. 11

Five bours. 1

Four bours. n

Three hours. 11

(Offered in alternate years, 1952-53; also offered in Summer tion. Session 1952.) Mr. Dole

Prerequisite: 1 or 3-4; junior standing.

Pour hours. 1 G151 PLANT ANATOMY AND HISTOLOGY. (2-4) Development of the organism and accompanying integration of cellular tissues. Ontogeny of vegetative tissues; modifications of the cell wall. (Offered in alternate years, 1952-53.) Prerequisite: 103, 104; senior standing. Mr. Taylor

G152 CYTOLOGY, (2-4)

The dynamics of the protoplast: nuclear division, gamete formation, syngamy and substitute methods of reproduction. Interrelation of chromosomal and genetic phenomena. (Offered in alternate years, 1953 - 54.)

Prerequisite: 101 or Zool. 115; Chem. 31-32 or Chem. 35; senior stand-Mr. Gersboy ing.

G153 FUNGI. (2-4)

The reproductive processes of the common molds, yeasts, and actinomycetes and their classification. Physiological studies; antibiosis. (Offered in alternate years, 1953-54.)

Prerequisite: 111, or permission of the department. Mr. Sproston

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

FORESTRY

Professor W. R. Adams; Assistant Professor Hopkins

1 ELEMENTS OF FORESTRY. (3-0) Three hours. II Introduction to specialization in forestry and conservation. Open to Pre-Forestry students only. Mr. Hopkins

3 DENDROLOGY. (0-3) One hour. 1 Field identification and characteristics of the more important forest trees and formation of forest types. Mr. Adams 100 DENDROLOGY OF ANGIOSPERMS. (2-3)

Three hours. п Classification and silvical characteristics of the more important broad leaf forest trees of North America. Twig identification. Prerequisite: 3. Messrs. Adams and Hopkins

Four bours. 1

Four bours. n

Forestry, Horticulture

- 102 DENDROLOGY OF GYMNOSPERMS. (2-0) Two hours. II Classification and silvical characteristics of the more important native and exotic coniferous forest trees of North America. Prerequisite: 3, 100. Mr. Hopkins
- 103-104 WOODLAND MANAGEMENT. (2-3) Three hours. 1, II Establishment, protection, and management of farm woodlands and small forest areas.

Prerequisite: Bot. 1 or 3-4; junior standing. Messrs. Adams and Hopkins

G105 MENSURATION. (1-3) Timberland surveying, timber estimating, log scaling, and growth determinations of trees and stands. Prerequisite: 3 or 103-104. Mr. Hopkins

G106 UTILIZATION OF WOODLAND PRODUCTS. (1-3) Two hours. II Sawmilling, wood products manufacture, maple products, wood preservation, and private and cooperative marketing practices. Prerequisite: 103 or permission of the department. Mr. Hopkins

G108 BIOLOGICAL STATISTICS. (3-0) Three hours. I The application of statistics to the analysis of biological data. Field plot technique. Interpretation of statistical analysis. Prerequisite: Math. 1; junior standing. Mr. Adams

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

HORTICULTURE

Associate Professor Blasberg; Assistant Professors Hopp and Hume; Mr. Calaban

1 GENERAL HORTICULTURE. (2-2) An introductory course dealing with materials and practices in the field of horticulture. *Mr. Blasberg*

2 SMALL FRUIT CULTURE. (2-2) The fundamental principles underlying plant growth and fruit production and the relation of these principles to practice. Mr. Blasberg

3 VEGETABLE CULTURE. (2-2) The characteristics of some more important crops and their re- sponses to various conditions of environment. Mr. Hopp
5 ESTHETIC HORTICULTURE. (2-0) An introduction to the possible uses of ornamental plant materials in beautifying the home and its surroundings, designed to develop an appreciation of the part which ornamental plants have in the culture of today.
101 TREE FRUITS. (2-2)Three hours. 1A study of environmental factors affecting fruit productions. (Offered in alternate years, 1953-54.) Prerequisite: 1.Mr. Calaban
102 PLANT PROPAGATION. (1-2) The theory and practice of multiplying plants by various methods. Prerequisite: Bot. 1 or 3-4. Mr. Hume
103 ADVANCED TREE FRUITS. (2-2) A study of cultural practices and the principles involved in modern fruit production. (Offered in alternate years, 1952-53.) Prerequisite: 1 and 101. Mr. Calaban
104 HORTICULTURAL SCIENCE. (2-2) The principles of growth of horticultural plants and their relation to horticultural practices. Prerequisite: Bot. 111. Mr. Blasberg
110 HORTICULTURE SEMINAR. (1-0) One hour. II Discussion of horticultural topics. Students required to prepare and present papers on selected subjects. Prerequisite: junior standing and permission of the department.
The Staff 111-112 PLANT MATERIALS. (1-2) A course designed to familiarize the student with the more important herbaceous and woody plants available for garden and landscape pur- poses. (Offered in alternate years, 1953-54.) Prerequisite: 1. Mr. Hume
113-114 COMMERCIAL FLORICULTURE AND NURSERY MANAGEMENT. (1-2) Two hours. I, II The application of physiological principles to the production of flowers and nursery plants with special emphasis on structures for growing plants, cultural methods, control of flowering, and methods of grading, packing, and marketing. (Offered in alternate years, 1952-
53.) Prerequisite: 1. Mr. Hume

Horticulture, Poultry Husbandry

116 ADVANCED VEGETABLE CULTURE. (2-2) Three hours. II A continuation of Hort. 3; important vegetables and their culture; review of recent experimental work and its application to commercial vegetable growing. (Offered in alternate years, 1953-54.) Prerequisite: 1 and 3. Mr. Hopp

G150 ADVANCED HORTICULTURE SEMINAR. (1-0) One hour. II Prerequisite: 110; senior standing. The Staff

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

POULTRY HUSBANDRY

Associate Professor Henderson

1 GENERAL POULTRY HUSBANDRY. (2-2) Three hours. I The principles of poultry husbandry and their application to general farm conditions.

101 POULTRY FEEDING. (3-2)

Feeding poultry for egg production, growth, and fattening. Practice in compounding rations. Experimental work and feeding problems. (Offered in alternate years, 1953-54.)

Prerequisite: Chem. 35; junior standing.

102 INCUBATION AND BROODING. (2-4) Four bours. II General biology as applied to incubation and the fundamental principles underlying incubation practices. The theory and practice of brooding chickens and other poultry. (Offered in alternate years, 1952-53.)

Prerequisite: 1; sophomore standing.

103 PROCESSING AND PACKAGING POULTRY PRODUCTS. (2-2)

Three hours. 1

Four hours. 1

The principles of marketing as they apply to eggs and poultry meat. Candling, grading, and packing eggs for market. Preparation of poultry for market. A one-week inspection trip to the Boston market is required. Charge to cover expenses of trip to Boston, \$25.00. (Offered in alternate years, 1953-54.) *Prerequisite:* junior standing.

SPECIAL STUDY

G191 to 199. An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

HOME ECONOMICS

THE CURRICULUM IN HOME ECONOMICS

The purpose of this department is to provide an education in those areas of learning which relate to home and family life. The curriculum has two objectives, first, to provide a sequence in General Home Economics which offers a liberal program based on the needs of women; and second, to provide several sequences which offer training in a variety of professions.

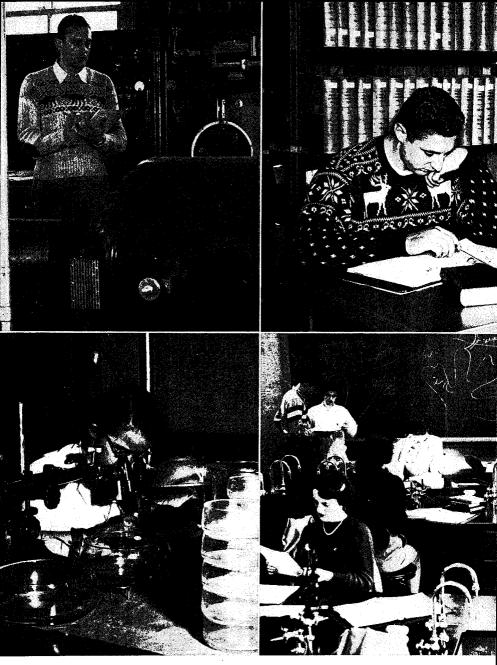
THE GENERAL HOME ECONOMICS SEQUENCE

This sequence requires 48 credit hours of Home Economics courses. Thirty-nine of these are the basic courses shown in the outline and the other nine are advanced courses. The sequence also requires 35 hours of liberal arts courses including English composition, literature, speech, psychology, economics and one year of a laboratory science, either botany or chemistry or zoology. The remaining 47 credit hours are elective.

FRESHMAN YEAR		2nd ESTER	00000000000000000		2nd ester
*English Composition	3	3	Social Science or Literature	. 3	3
Social Science or Language	3	3	Household Technology	2	2
†Laboratory Science			Survey of Food Preparation	. 4	
Orientation	1	1	Consumer Problems in Buying		
Design			Textile Merchandise	. 3	
Food Selection			House Planning	. 2	
Textiles and Clothing Selection)n	.3	Food Buying and Service		
Speech		3	Home Furnishings I		3
Physical Education	(1)) (1)	Elective	. 3	6
Hygiene	(1) (1)	Physical Education	.(1)	(1)

* Students exempted from English Composition on the basis of the placement test may substitute another English course.

† Chemistry is the required laboratory science if advanced work in Food and Nutrition is desired.



STUDENTS AT WORK



STUDENTS AT PLAY

The Curriculum in Home Economics

JUNIOR YEAR	1st 2nd SEMESTER			2nd ESTER
Social Science or Literature Required Home Economics		Child Care and Development Required Home Economics	3	•••
Course		Course	3	3
Family Living		Advanced Course in Science	3	3
Home Management		Advanced Course in Humanities	3	3
Electives		Electives	6	9

THE PROFESSIONAL SEQUENCES

To permit specialization for the various professions the subject matter is divided into three major sequences. The program for freshmen is uniform for all students in the professional sequences but at the beginning of the sophomore year each student elects a "major" within one of the professional sequences. The courses required for each student are planned so far as possible to meet her particular interests.

The Home Economics Education sequence supplies a background which prepares students to teach Home Economics on the secondary level in Vermont and in some other states or to become home demonstration or 4-H club agents.

The Textile, Clothing and Related Art sequence is planned for students who are interested in the fields of textile testing, costume designing, fashion illustrating, fashion merchandising, interior decorating, and the teaching of textiles and clothing. This sequence provides background upon which a talented student may with additional study or apprentice training build a career.

The Food and Nutrition sequence is planned to prepare students for positions as dietitians, both administrative and practising, in hospitals, colleges, industry or other institutions; as nutrition or food specialists in utilities or commercial food firms; or as teachers of food and nutrition. This sequence meets the academic requirements for membership to the American Dietetic Association, which makes it possible for an able student on graduation to become a dietetics interne in a hospital approved by the Association.

Every candidate for the B.S. degree in Home Economics must present a total of 130 semester hours of credit, exclusive of courses required in physical education. Students in Home Economics Education must have a 75 average in their Home Economics subjects to be eligible for student teaching in the state during their senior year.

OUTLINE OF PROFESSIONAL SEQUENCES

UNIFORM FRESHMAN YEAR

lst 2nd SEMESTER

Design	3	
*English Composition		3
Principles of Economics	3	3
Food Selection	3	•
Basic Speech		3
Orientation	1	1
Introductory Chemistry		4
Textiles and Clothing Selection		3
Physical Education	(1)	(1)
Hygiene	(1)	(1)

* Students exempted from English Composition on the basis of the placement test may substitute another course in English.

CLOTHING AND TEXTILES

SOPHOMORE YEAR

1st 2nd SEMESTER

European History or American		
Government	3	3
Surv. Food Prep.	4	
Food Buying & Service		3
Household Technology	2	2
Outline of Organic Chem	5	***
Costume Design	2	
Clothing Construction I	•••	3
House Planning	2	
Elective		6
Physical Education	1)	(1)

JUNIOR YEAR

1st 2nd SEMESTER

Consumer Problems in Buying Textile Merchandise	3	
Elementary Botany or		
Introduction to Zoology	4	
General Psychology		3
History of Costume	3	•••
Home Furnishing I		3
Family Living		3
Home Management		3
Clothing Construction II	•••	3
Elective		3

HOME ECONOMICS

SOPHOMORE YEAR		2nd ESTER
English	#3	3
Food Preparation	3	3
Household Technology	2	2
Outline of Organic Chem	5	
Clothing Construction I		3
General Psychology	3	3
House Planning	2	
Elective		3
Physical Education * A course in literature.)(1)

JUNIOR YEAR

1st 2nd SEMESTER

Consumer Problems in Buying	
Textile Merchandise	
Clothing Construction II 3	
Food Preservation and Ecop 3	•••
Education	
*Extension Methods	2
Family Living	3
Home Management	
Meal Planning and Service	3
Home Furnishing I	3
Elective	3
Required of Extension Education dents only.	stu

The Curriculum in Home Economics

SENIOR YEAR

SENIOR YEAR

1st 2nd SEMESTER

. 3	3
. 3	
	3
. 3	
	3
	3
	3 or 4
. 9	0-3

* One year of either English or American or World literature, or one semester of Periodical Writing and one semester of Expository Writing.

FOOD AND NUTRITION

SOPHOMORE YEAR

31	SIVIC	21 23
Introduction to Zoology	4	
Food Preparation	3	3
Household Technology	2	2
Outlines of Organic		
Chemistry	5	•••
European History or		
American Government	3	3
Food Chemistry		3
General Bacteriology		3
Elective	•	3
Physical Education	(1)	(1)

JUNIOR YEAR

1st 2nd SEMESTER

1st 2nd SEMESTER

Consumer Problems in Buying		
Textile Merchandise	3	
Biochemistry		
Food Preservation and Econ	3	•••
General Psychology	3	3
Family Living		3
Home Management		3
Meal Planning and Service		3
Physiology		3
Food Production		3
Electives	6	•••

SEMESTER Child Care and Development 3 ••• Demonstration Techniques 2 ... Home Nursing 1 ... Nutrition and Diet 4 ... School Lunch Management 3 Special Problems 2-3

						2nd		1
Home	M	ana	gement	House				3
Problem	ms	in	Home	Furnish	ing		1	2

SENIOR YEAR

1st 2nd SEMESTER

Child Care and Development Educational Psychology		•••
English		3
		-
Nutrition and Diet	4	•••
Experimental Foods or		
Diet Therapy	••••	3
Home Management House		3
Institution Administration		3
Food Cost Control	3	
Electives	••••	3

* One year of either American or English or World Literature or one semester of Journalism and one semester of Expository Writing.

1st 2nd

COURSES OF INSTRUCTION

CLOTHING AND TEXTILES

Professor Beresford; Mrs. Metze

1 DESIGN. (1-4) Three hours. I The fundamentals of color and design. Miss Beresford and Mrs. Metze

2 TEXTILES AND CLOTHING SELECTION. (2-2) Three hours. n Textiles, their selection and care, as a basis for appropriate personal apparel.

Prerequisite: 1.

Miss Beresford

101 CONSUMER PROBLEMS IN BUYING TEXTILE MERCHANDISE. (1-4) Three bours. I The factors of production, distribution, and consumption governing

the buying of apparel and household and institutional merchandise. Prerequisite: 2, or permission of instructor.

103 COSTUME DESIGN. (0-4) Two hours. I Color and design fundamentals and principles applied to costume planning.

Prerequisite: 1.

104 CLOTHING CONSTRUCTION I. (0-6) Three hours. II The development of techniques of clothing construction with the ease of fabric manipulation and previous construction experience as the basis for the selection of the class problems. Prerequisite: 2. Mrs. Metze

105 CLOTHING CONSTRUCTION II. (0-6) Three hours. I, II The further development of construction techniques with emphasis on tailoring problems. Prerequisite: 103. Mrs. Metze

106 COSTUME DESIGN AND CONSTRUCTION. (1-4) Three hours. II The development of the original costume plan by draping and flat pattern design. Prerequisite: 105. Miss Beresford

rrerequisite: 10).

151 HISTORY OF COSTUME. (1-4) Three hours. I History of costume as a source of inspiration for modern costume design.

Prerequisite: 103 and 104.

Miss Beresford

Miss Beresford

Textiles, Education, Family Living

154 TEXTILES. (1-4)

Three hours. 11

Textile testing and the chemical and physical properties of materials used as fabrics.

Prerequisite: 101 and Chem. 35.

SPECIAL STUDY

191 to 199. An additional course or courses, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: permission of the department.

The Staff

EDUCATION

Assistant Professors M. Brown and Knowles

Three hours. I 151 METHODS OF TEACHING, (3-0) Methods of teaching homemaking in the junior and senior high school, including program planning and administration of homemaking departments. Prerequisite: Psychology 2.

Seven hours. 11 154 STUDENT TEACHING. Observation and teaching in approved junior and senior schools under supervision.

Prerequisite: 151.

Two hours. I 155 DEMONSTRATION TECHNIQUES. (0-4) Practice in the presentation of information and the teaching of skills by visual methods. Miss Knowles

Prerequisite: F. & N. 102.

Two or three hours. n 156 SPECIAL PROBLEMS. Individual investigation on selected study designed to meet special needs of students.

FAMILY LIVING

Drs. Russell and Corbin; Miss Fox

41 HOME NURSING. (0-2) The care of the family during illness. Prerequisite: junior standing.

One hour. 1

Miss Fox

152 FAMILY LIVING. (3-0) Three hours, M an Origin and development, structure and function of the family in relation to present day home and social problems. Prerequisite: Psychology 1; junior standing. Dr. Russell 153 CHILD CARE AND DEVELOPMENT. (2-2) Three hours. 1 Growth, development, and care of the young child; opportunity for observation and participation with children of pre-school age. Prerequisite: Psychology 2; junior standing. Drs. Corbin and Russell FOOD AND NUTRITION Professor King; Associate Professor Bailey; Misses Rockwood and Williams 1 FOOD SELECTION. (3-0)Three hours. 1 The essential dietary requirements for growth and health with applications to individual and family groups. Miss Bailey 2 FOOD AND NUTRITION, (1-4) Three hours. s.s. The principles of food preparation with laboratory application and the fundamentals of normal nutrition. For students in Nursing Education. 21 SURVEY OF FOOD PREPARATION. (2-4) Four bours. 1 Basic principles of food preparation, with some laboratory applica-Miss Williams

22 FOOD BUYING AND SERVICE. (1-4) Three hours, 11 Factors involved in consumer purchase of foods, the planning and service of meals. Prerequisite: 21.

101-102 FOOD PREPARATION. (2-6) Three hours. 1, 11 The scientific principles and fundamental processes underlying food preparation, with practical applications.

Prerequisite: Chemistry 1 and, concurrently, chemistry 35.

Misses King and Rockwood

103 FOOD PRESERVATION AND ECONOMICS. (1-4) Three hours. I The scientific principles and methods involved in the preservation of food. The factors of production, processing and distribution governing the buying of foods. Prerequisite: 102. Miss Bailey

tion.

Miss Rockwood

Food and Nutrition, General Home Economics 133

Three hours. II 104 MEAL PLANNING AND SERVICE. (1-6) The principles involved and practise in planning, preparing, and serving family meals at different cost levels. Prerequisite: 102. Miss Bailey

151 NUTRITION AND DIET. (3-2)

The principles of human nutrition; the nutritive value of foods with application in calculating food requirements and diets for children, adults, and family groups. Prerequisite: 102.

Three hours. II 152 DIET THERAPY. (2-2) The adaptations of the normal diet in conditions affected by or affecting the utilization of food. Prerequisite: 151.

Two or three hours. n 153 READINGS IN FOOD OR IN NUTRITION. A critical survey of the literature on recent developments in food or in nutrition.

Prerequisite: 151.

Miss King; Miss Bailey

Three hours. II 154 EXPERIMENTAL FOOD PREPARATION. (1-4) Methods and techniques used in experimental work in foods. Independent laboratory study of problems in food preparation. Prereauisite: 102. Miss King

SPECIAL STUDY

G191 to 199. An additional course or courses, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: Permission of the department.

GENERAL HOME ECONOMICS

Miss King and Staff

1 ORIENTATION TO COLLEGE. (1-0) The problems of adjustment to college life.

2 ORIENTATION TO HOME ECONOMICS. (1-0) One hour. II Survey and evaluation of professional opportunities in Home Economics.

One hour. 1

Miss Bailey

The Staff

Four bours. 1

Miss Bailey

The College of Agriculture

HOME MANAGEMENT

Assistant Professor Knowles

102 HOME MANAGEMENT. (2-2) Three hours. II A study of how families use their material and human resources to secure their goals. Prerequisite: Economics 12.

151, 152 HOME MANAGEMENT HOUSE RESIDENCE. Three hours Practical application of homemaking and group living in the Home Management Residence. A charge of \$9.00 per week is made to cover cost of board and operating expenses. Prerequisite: 102.

SPECIAL STUDY

G191 to 199. An additional course or courses, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: Permission of the department.

The Staff

HOUSING

Professor Beresford; Assistant Professor Knowles; Mrs. Metze

- 21-22 HOUSEHOLD TECHNOLOGY. (1-2) The application of scientific principles to the selection, operation and care of household equipment. *Two hours.* 1, n *Miss Knowles*
- 23 HOUSE PLANNING. (2-0) Functional housing, including problems of financing, site location, utilization of space. *Two hours.* 1 *Two hours.* 1 *Miss Knowles*
- 102 HOME FURNISHING I. (1-4) Three hours. II The application of the fundamental elements of color and design to the problems involved in furnishing the home. Prerequisite: C. & T. 101. Mrs. Metze

104 HOME FURNISHING II. (1-4) Studies in home decorating with special emphasis given to period furnishing, its present use and influence upon modern furnishings. Prerequisite: 102. Miss Beresford

134

Home Management, Housing, Institutional Management 135

Two bours. п 152 PROBLEMS IN HOME FURNISHING. (0-4) The Staff Prerequisite: 102.

SPECIAL STUDY

G119 to 199. An additional course or courses, designed to meet the special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: Permission of the department.

The Staff

INSTITUTIONAL MANAGEMENT

Associate Professor Godfrey; Miss H. Brown

Three bours. 1 101 SCHOOL LUNCH MANAGEMENT. (1-6) The organization, operation, and control of different types of school lunches. Opportunities for some practical training in menu planning, and in the buying, preparation, and serving of food in quantities. Prerequisite: F. & N. 102. Misses Brown and Godfrey

102 FOOD PRODUCTION. (1-6) Three hours, 11 Practical application of principles, methods, and techniques used in large quantity food preparation. Prerequisite: F. & N. 102. Misses Brown and Godfrey

Three hours. 11 152 INSTITUTION ADMINISTRATION. (3-0) The organization and personnel management of various types of food service units.

Prerequisite: 102.

153 INSTITUTION MARKETING. (2-0) Two bours. 1 Present day food markets, and problems in institutional buying, with some training in buying techniques and procedures. Miss Godfrey Prerequisite: 102.

154 INSTITUTION EQUIPMENT. (2-0) Two bours. II Institution kitchen, serving room, dining room layouts, including materials, fabrication, construction, installation, operation, and care of institution equipment. Prerequisite: 102. Miss Godfrey

155 FOOD COST CONTROL. (1-4)

Three hours. 1 The fundamental principles of accounting and a study of adequate systems of food control for various types of food service. Prerequisite: 102. Miss Godfrey

Miss Godfrey

The College of Education and Nursing includes the following curricula: Elementary Education, Junior High School Education, Industrial Education, Secondary Education, Music Education, Business Education, Basic Nursing, and (for graduate nurses) Nursing Education. Each curriculum includes as much general education as is compatible with its professional objectives.

The professional objectives are indicated by the names of the curricula. The professional courses which are included are based upon the general courses and are planned to provide the background and skills essential to professional efficiency.

Ideals of personal growth and social service are kept in view as the chief objectives. Since the curricula in education are intended to develop teaching efficiency, emphasis is placed not only upon gaining an excellent background and knowledge of subjects to be taught but also upon educational theory and the development of skill in teaching. To promote the attainment of teaching efficiency, laboratory experiences and student teaching are required in each curriculum.

In addition to examinations required by the University, the National Teacher Examinations are given at the University in February of each year. They are recommended to those who wish objective measurements of certain abilities and knowledge expected of teachers and who wish to qualify for teaching in communities which require applicants to submit scores on the National Teacher Examinations.

The descriptions of the Elementary Education and Junior High School Education curricula, which follow, include certain special provisions with respect to admission, transfer of credit from normal schools and teachers colleges, and tuition. The description of the Secondary Education curriculum includes special provisions with respect to transfer of credit from normal schools and teachers colleges. There are no special provisions with respect to these matters applicable to the other curricula.

THE EDUCATION CURRICULA

THE ELEMENTARY EDUCATION CURRICULUM AND THE JUNIOR HIGH SCHOOL EDUCATION CURRICULUM

These curricula are offered by the University in cooperation with the Vermont State Board of Education. They are intended to provide an excellent preparation for teaching in the elementary schools and in the junior high schools, respectively. The degree of Bachelor of Science in Education is conferred upon each graduate in these curricula by the University of Vermont and State Agricultural College on recommendation of the Dean of the College of Education and Nursing and the University Senate.

Students of good moral character who have been graduated from an approved high school and who satisfy entrance requirements are eligible for admission if recommended by the school principal.

A student who has satisfactorily completed one year of elementary teacher preparation in this State or the first year in a standard teachers college or its full equivalent, may be admitted to sophomore standing, provided the entrance requirements have been met and a satisfactory record presented.

Graduates of the former two-year curriculum, if found qualified, may be admitted to the Elementary Education curriculum or to the Junior High School Education curriculum in junior standing. Such students will be given a special enrollment supplementing the courses accepted for advanced credit and will be eligible to receive the degree of Bachelor of Science in Education after satisfactory completion of two years of resident work.

A student who transfers from this curriculum to another in the University will receive credit for work done, varying with the curriculum to which he transfers.

ADMISSION

Graduates of secondary schools who wish to enter the curriculum in Elementary Education or the curriculum in Junior High School Education should obtain application forms from the Director of Admissions of the University. A transcript of record must be obtained from the secondary school for use as one of the bases of action on the application. The recommendation of the principal and the approval of a representative of the University, resulting from a personal interview, will be required.

Students who are to be admitted to this curriculum will be chosen on evidence of ability and aptitude for becoming efficient teachers. Admission will be granted on the basis of:

- 1. Health and physical fitness.
- 2. Probable ability to do college work.
- 3. Personality and character.
- 4. Special aptitude for teaching.

HEALTH REQUIREMENTS. A certificate of good health and physical fitness from a practicing physician must be furnished by each applicant. In addition, a physical examination is required of the applicant by the University after the beginning of the academic year.

PROBABLE ABILITY TO DO COLLEGE WORK. This is determined by means of a transcript of the student's scholastic record in the secondary school and the recommendation of the principal. In addition, tests of scholastic aptitude and of achievement in English are given at the University.

CHARACTER AND PERSONALITY REQUIREMENTS. The high school principal submits an estimate of the applicant's character and personality based on the following traits: seriousness of purpose, industry, initiative, influence, concern for others, responsibility, emotional stability.

APTITUDE FOR TEACHING. The recommendation of the principal of the high school which the applicant attended, the opinions of instructors, and psychological and achievement tests will receive consideration in judging aptitude for teaching.

ADMISSION TO ADVANCED STANDING. Candidates who apply for advanced standing will be admitted on the basis of a transcript of college work done elsewhere and the recommendation of the institution where work has been completed. No course work will be approved for transfer of credit which carries a grade of less than C or 70 per cent.

TRANSFER OF CREDIT FROM OTHER INSTITUTIONS OF HIGHER LEARNING

Students may transfer to the Elementary or Junior High School Education curricula from various departments of this or other institutions of higher learning. Their admission is dependent upon scholastic standing and promise of success in teaching. The amount of additional work required will depend upon courses already completed and the extent to which they correlate with the courses in these curricula. It may be found that summer session work or a longer period of study than that required to complete a total of four years of resident work will be necessary.

TRANSFER OF NORMAL SCHOOL OR TEACHERS COLLEGE CREDIT

STUDENTS TRANSFERRING INTO THE ELEMENTARY EDUCATION CURRICULUM

Students who have Completed Two Years of a Teachers College Program. Students who have completed satisfactorily two years of study in a state

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The Education Curricula

normal school or teachers college may transfer with full credit to the third year of the curriculum in Elementary Education. Their admission is conditioned upon a transcript of their record, the recommendations of the president of the teachers college, and the approval of the State Department of Education and the Director of Admissions at the University.

Students who have Completed Three Years of a Teachers College Program. Students who have completed satisfactorily three years of study in a state normal school or teachers college may be admitted to the fourth year of the curriculum in Elementary Education. Their admision is conditioned upon a transcript of their record, the recommendations of the president of the teachers college and the State Department of Education, and the passing of appropriate performance tests showing ability to do satisfactory work of senior grade. Unless waived by reason of teaching experience, the student is asked to take courses in the summer session totalling not less than six semester hours, chosen under the direction of the Dean of the College of Education and Nursing. Thirty-six semester hours of credit, chosen under the guidance of the Dean are required to complete the curriculum in Elementary Education, unless the transcript shows that the full equivalent of the first three years of the curriculum has been completed with satisfactory attainment. In such cases a normal enrolment of thirty semester hours will enable one to meet the requirements for the degree.

STUDENTS TRANSFERRING INTO THE JUNIOR HIGH SCHOOL EDUCATION CURRICULUM

Students who have Completed Two or Three Years of a Teachers College Program. Students who have completed two or three years of study in a state normal school or teachers college may transfer to the curriculum in Junior High School Education upon the same conditions as those required of students who transfer to the curriculum in Elementary Education. Their advanced standing will depend upon the degree to which their previous study correlates with the curriculum in Junior High School Education at the University.

TUITION

FOR VERMONT STUDENTS. The Vermont State Board of Education pays the tuition of a specified number of qualified Vermont students enrolled in Elementary and Junior High School Education who sign, on a form prescribed by the State Department of Education, a declaration of intention to teach in Vermont for as long a time as that for which tuition is provided. As the purpose of this tuition payment is to provide a more adequate supply of well-qualified teachers for the elementary and junior high schools of Vermont, students whose tuition is paid by the State Board of Education are under obligation to discharge this responsibility. The number of such tuition scholarships provided by the State Board of Education is limited. Students must apply for them each year. They will be awarded upon the basis of academic standing, promise of success in teaching, financial need and order of application. Students who are already enrolled at the University should apply for these scholarships in May preceding the year for which they are desired.

FOR STUDENTS FROM OTHER STATES. Students from other states who meet the entrance requirements may be admitted to the curriculum in Elementary Education or to the curriculum in Junior High School Education. These students will be required to pay the regular tuition charges.

FOR STUDENTS WHO DO NOT PLAN TO TEACH IN VERMONT. Students from Vermont or from other states who are properly qualified, but do not plan to teach in Vermont, may be admitted to the curriculum in Elementary Education or to the curriculum in Junior High School Education at the regular tuition rate of the University.

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The Education Curricula

OUTLINE OF THE ELEMENTARY EDUCATION CURRICULUM

THE FRESHMAN YEAR 1st 2nd SEMESTER	THE SOPHOMORE YEAR 1st 2nd SEMESTER
English Composition33Intro. to Education3Child Development33Economic Geography33Art Education33Approved Elective33Physical Education(1) (1)Hygiene (Women)Military Science (Men)2	Sophomore English3Teaching English3Lit. for the Elem. School3Music Fundamentals3General Psychology3Laboratory Science4Teaching Physical Education I 1Military Science (Men)2
THE JUNIOR YEAR 1st 2nd SEMESTER	THE SENIOR YEAR 1st 2nd semester
Speech33American History33Teaching Arithmetic3Teaching Reading3Teaching Music3Teaching Soc, Stud. and Sci.3Child and the Curric.2Health Education2	English Elective3Teaching Art3*Educational Psychology or3 orPhilosophy of Education3Teaching Physical Education II 1Practicum in ElementaryEducation6*Approved Elective3 or 3

* If Educational Psychology is chosen, there will be an approved three hour elective in the second semester. If Philosophy of Education is chosen, there will be an approved three hour elective in the first semester.

A minimum of 125 semester credit hours is required for the degree. In addition, men enrolled in this curriculum must earn 8 semester hours in military science.

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THE JUNIOR HIGH SCHOOL EDUCATION CURRICULUM

The Junior High School Education Curriculum is offered by the University in cooperation with the Vermont State Board of Education. It is intended primarily to prepare teachers for the upper grades of the elementary school and for junior high school positions in Vermont and other states in so far as certification requirements can be met.

The conditions regarding admission and tuition which are stated in the section above entitled The Elementary Education Curriculum apply to students who are accepted in the Junior High School Curriculum. The number of Vermont students with tuition scholarships who will be accepted in this curriculum is limited.

The degree Bachelor of Science in Education is awarded by the University of Vermont and State Agricultural College on recommendation of the Dean of the College of Education and Nursing and the University Senate.

OUTLINE OF THE JR. H. S. EDUCATION CURRICULUM

Sophomore English 3 3 Biological Science 4 4 American History 3 3
General Psychology3Approved Electives3Physical Education(1)(1)Military Science (Men)2
HE SENIOR YEAR 1st 2nd semester
Psychology of Adolescence 3 Guidance 3 Vermont History 3 Organization and Management 3 Jr. H. S. 3 Philosophy of Education 3 Secondary Methods and 3 Procedures 3 Observation, Participation, and 3 Approved Electives 6

A total of 125 semester hours is required for the degree, of which 32-38 semester hours shall be professional and 87-93 semester hours shall be general. In addition, men enrolled in this curriculum will be required to earn 8 semester hours in military science.

THE INDUSTRIAL EDUCATION CURRICULUM

The curriculum in industrial education, leading to the degree of Bachelor of Science in Education, is designed for those students who wish to prepare to teach Industrial Arts in junior and senior high schools.

To give general education and to serve as a basis for the study and teaching of industrial education, it provides courses in English, mathematics, psychology, and science. General courses in education, as well as special courses in the teaching of industrial arts and in trade and industrial education, are included. Required courses in mechanical drawing, woodworking, general shop, automobile shop, and machine shop provide the knowledge and skill essential to the teacher of these subjects. Through courses in mathematics, science, and mechanical drawing the student gains command of subjects which qualify him as a teacher of related subjects in trade and industrial schools.

Suggested electives include: Calculus (Mathematics 21-22), English Literature or Advanced Composition (English 21, 22 or 18); Survey of European or Survey of American History (History 11-12 or 21, 22); American Government (Political Science 1, 2); Introduction to Philosophy (Philosophy 1); Magnetism and Electricity (Physics 141, 142); and Elementary Quantitative Analysis (Chemistry 21- 22).

Those who enroll in this curriculum are required to gain twenty-four or more weeks of work experience in industry, previously approved, during the summer vacations preceding the senior year.

OUTLINE OF THE INDUSTRIAL EDUCATION CURRICULUM

THE FRESHMAN YEAR 1st 2nd SEMESTER	THE SOPHOMORE YEAR 1st 2nd SEMESTER
English Composition33Mathematics 1 & 2 or 11 & 12 3-5 3-5Mechanical Drawing3General Shop3Speech 113Speech 14 or Elective3Physical Education(1) (1)Military Science2	General Psychology 3 3 Physics 1 & 2 or 11 & 12 3-5 3-5 Principles of Economics 3 3 Principles of Vocational Educa- 3 3 tion 3 3 Wood Shop 3 3 Elective 3 3 Physical Education (1) (1)
	Military Science 22
THE JUNIOR YEAR 1st 2nd SEMESTER	THE SENIOR YEAR 1st 2nd SEMESTER
Industrial Education Survey3Chemistry 1 & 2 or 11 & 124-5 4-5Methods in Vocational Educa-3tion3Automobile Shop3Industrial Management3Personnel Management3Approved Electives3	Development of Instr. Materials 3 Teaching Ind. and Related Sub- jects

THE SECONDARY EDUCATION CURRICULUM

This curriculum, leading to the degree of Bachelor of Science in Education, is designed to prepare teachers for junior and senior high schools. Students who plan to teach in secondary schools should consult the Dean of the College of Education and Nursing with reference to the selection of courses.

During the first two years, students are required to take basic courses in English, foreign language, science, and social science. They may also take mathematics. They choose their fields of specialization from those subjects which they have pursued during the first two years.

TRANSFER OF TEACHERS COLLEGE OR NORMAL SCHOOL CREDIT. Students who have completed two years of study in a state normal school or teachers college may transfer to the curriculum in Secondary Education. Their admission is conditioned upon their scholastic attainment in teachers college or normal school, the recommendations of the president of the teachers college and the State Department of Education, and the passing of examinations in English and mathematics. To become eligible for the degree of Bachelor of Science in Education, these students must complete at least 72 semester hours of course work, chosen under the guidance of the Dean of the College of Education and Nursing.

PROFESSIONAL REQUIREMENTS. Candidates for the degree in secondary education are required to complete a course in General Psychology and to attain a high standard of scholarship in eighteen semester hours of course work in professional education.

"TEACHING MAJORS." Candidates for the degree in secondary education are also required to complete two "teaching majors" or one "major" and two "minors," preferably in related fields, so chosen as to correlate with subjects generally taught in high schools. The recommended major or minor fields are English, speech, foreign languages, mathematics, history, social science, biological sciences, and physical sciences.

A "teaching major" includes at least twenty-four semester hours in one subject and a "teaching minor," at least eighteen semester hours except that in English such a major is 30 semester hours and such a minor is 24 semester hours. If an elementary language is taken at the University, this will make the required number of hours in a language major 30 and a language minor 24. In meeting the major and minor requirements, subjects should be chosen which will give a relatively complete knowledge of each field. Students who elect speech as a major are required to take two minors, one of which must be English. Each student is required to take not less than two advanced courses in his major subject and one advanced course in the minors. During his senior year he should take at

The Education Curricula

least one advanced course in each field. Students are expected to maintain a high standard of scholarship in their major and minor fields. A grade of less than 72 cannot be counted toward a major or a minor unless other grades in the field are sufficiently high to justify its acceptance.

STUDENT TEACHING. During the senior year, students enrolled in the Secondary Education curriculum are required to take a laboratory course in teaching. In most cases, students will spend at least three continuous weeks in a secondary school where they will follow a full teaching schedule. In so far as possible, students are advised to complete their academic subjects before the last semester of their senior year.

OUTLINE OF THE SECONDARY EDUCATION CURRICULUM

THE FRESHMAN YEAR 1st 2nd SEMESTER	THE SOPHOMORE YEAR 1st 2nd semester
English Composition33Foreign Language33History or Political Science33Laboratory Science44Approved Elective33Physical Education(1) (1)Hygiene (Women)(1) (1)Military Science (Men)2	Sophomore English3Foreign Language3General Psychology3Approved Electives6Physical Education(1) (1)Military Science (Men)2
THE JUNIOR YEAR 1st 2nd SEMESTER	THE SENIOR YEAR 1st 2nd SEMESTER
Principles of Education or Educational Psychology 3 Philosophy of Education or Psy- 3 chology of Adolescence 3 History of Education or 5 Educational Measurements 3 English Elective 3 Approved Electives 9	Education Elective

A total of 122 semester hours is required for the degree; from 48 to 60 semester hours shall be devoted to teaching majors and minors. In addition, men enrolled in this curriculum will be required to earn 8 semester hours in military science.

SUGGESTED SEQUENCES IN MAJOR OR MINOR FIELDS

By making use of electives, students, with the approval of their advisers and the Dean, will choose courses which will assure relatively complete preparation in the major or minor teaching fields. Additional subjects will be chosen to broaden the student's education and to increase understanding of modern civilization and its problems.

Students may select the "teaching majors" or "teaching minors" from one or the other of two general fields which represent interdepartmental sequences. They have an alternative choice of selecting from a number of special or subject fields. Suggested sequences in general science and in social science are listed below. These are followed by suggested subject sequences for the fields of English, French, German, history, Latin, mathematics, Spanish, and zoology. In addition, sequences may be arranged in botany, chemistry, economics, physics, political science, or speech.

SUGGESTED SEQUENCES IN GENERAL FIELDS

GENERAL SCIENCE GENERAL SOCIAL SCIENCE Semester Semester First Year Hours First Year Hours European History General Botany or 6 Introduction to Zoology..... American Government 6 Second Year Second Year General Chemistry or American History 6 International Relations General Physics 10 6 Third Year Third Year A third elementary science or A third course in History or in Political Science An intermediate course in 6 Principles of Economics 6 Fourth Year Fourth Year Two advanced courses chosen A fourth elementary science. 8-10 from History, Political An intermediate or advanced course in science 8-10 Science, or Economics..... 12 42-48 Total semester hours in social 48* science

* Additional electives may be chosen from courses in social science subject fields.

SUGGESTED SEQUENCES IN SUBJECT FIELDS

Each of the following lists contains the names of courses which are suggested for election during the *four* years. The actual year in which a particular course is taken will be determined by such factors as individual needs and the completion of prerequisites.

	ENG	LISH	
MAJOR SEQUENCE	1st 2nd	MINOR SEQUENCE	1st 2nd
	SEMESTER		SEMESTER
English Composition		English Composition	
English Literature		English Literature	
Shakespeare		Shakespeare	
*Advanced Composition		*Advanced Composition	
Public Speaking		Public Speaking	
American Literature	3 3		

* If students are excused from Freshman composition, they are required to take a course in advanced composition.

The Education Curricula

FRENCH

FKI	ENCH
MAJOR SEQUENCE 1st 2nd semester	MINOR SEQUENCE 1ST 2ND SEMESTER
Intermediate French	Intermediate French
Introduction to French Literature 3 3	Introduction to French Litera-
French Literature: 19th Century 3 3	
	ture 3 3
Conversation and Composition 3 3	Conversation and Composition 3 3
An additional course in French Literature	
GEI	RMAN
MAJOR SEQUENCE 1st 2nd	MINOR SEQUENCE 1st 2ND
SEMESTER	SEMESTER
Elementary German	Elementary German
Intermediate German	Intermediate German
Introduction to German Litera-	Introduction to German Litera-
ture	ture
Advanced Composition and Con-	
versation 3 3	
	TORY
MAJOR SEQUENCE 1st 2ND SEMESTER	MINOR SEQUENCE 1st 2nd semester
Survey of European History 3 3	Survey of European History 3 3
Survey of American History 3 3	Survey of American History
Europe in the Modern Age	Contemporary History
Contemporary History	Contemporary History
A course in American Government is recomm	and also
LA	TIN
MAJOR SEQUENCE 1ST 2ND	MINOR SEQUENCE 1st 2nd
SEMESTER	SEMESTER
Livy and Horace 3 3	Elementary Latin
Letters; Lyric Poetry 3 3	Intermediate Latin
Epic Poets; Repub. Prose	Livy and Horace 3 3
Teaching Latin in Secondary	Letters; Lyric Poetry
Schools	
Prose Composition	
	EMATICS
MAJOR SEQUENCE 1st 2ND	MINOR SEQUENCE 1st 2nd
SEMESTER	SEMESTER
Freshman Mathematics	Freshman Mathematics
Calculus 3 3	Calculus 3 3
Projective Geometry	Recommended:
	General Physics
Recommended:	General Physics
General Physics 5 5	
	NISH
MAJOR SEQUENCE 1st 2ND	MINOR SEQUENCE 1st 2nd
SEMESTER	SEMESTER
Elementary Spanish	Elementary Spanish
interinediate optimier interine p	
Introduction to Spanish Litera-	Introduction to Spanish Litera-
ture	ture
Conversation and Composition 3 3	
•	

		200	LOGY			
MAJOR SEQUENCES 1	sT	2ND	MINOR	SEQUENCE	1st	2ND
SE	EM I	ESTER			SEMI	ESTER
Introduction to Zoology	4		Introdu	action to Zoology .	4	
Vertebrate Zoology		4	Verteb	rate Zoology		4
General Entomology	4	4	Heredi	ty		
0 7				and		
Comparative Anatomy	4		Eugeni	cs		3
Vertebrate Embryology or		4	Compa	rative Anatomy and	4	
Heredity and	3		Verteb	rate Embryology		4
Human Genetics and Eugenics		3				

THE MUSIC EDUCATION CURRICULUM

The University of Vermont and State Agricultural College offers this four-year curriculum in Music Education leading to the degree of Bachelor of Science in Music Education. It is recommended to students who have sufficient training and natural musical ability to justify a career in music. Graduates are qualified for positions as instructors and supervisors of music in the public schools of Vermont. The curriculum may be adapted to meet requirements elsewhere.

Students must pass the aptitude tests given by the Department of Music and must satisfy the general admission requirements of the University.

THE FRESHMAN YEAR 1st 2nd SEMESTER Survey of Musical Literature 3 3 Elementary Sight-Singing	THE SOPHOMORE YEAR 1st 2nd SEMESTER Elementary Harmony 3 3 Advanced Sight-Singing 3 3 Applied Music (two courses) 2-3 2-3
English Composition33Elementary German33Laboratory Science3-53-55-5Choir or Orchestra11Physical Education(1) (1)Military Science (Men)22Hygiene (Women)(1) (1)	Sophomore English Elective33Intermediate German33General Psychology33Choir or Orchestra11Physical Education(1) (1)Military Science (Men)22
THE JUNIOR YEAR 1st 2nd SEMESTER	THE SENIOR YEAR 1st 2nd SEMESTER
Advanced Harmony33Methods & Practice Teaching33Applied Music (two courses)2-32-3Greek Art: European Painting33Education, Prin. & Phil.33Choir or Orchestra11	Orchestration and Conducting 3. 3 Sec. Meth. & Prac. Teaching 3. 3 Applied Music Methods

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The Education Curricula

THE CURRICULUM IN BUSINESS EDUCATION

The curriculum in Business Education is intended to prepare teachers of business subjects for the secondary schools.

THE FRESHMAN YEAR 1st 2nd SEMESTER	THE SOPHOMORE YEAR 1st 2nd SEMESTER
Economic Geography 3 3	Eng., Amer., or World Lit 3 3
English Composition	Prin. of Economics 3 3
Algebra, Math. of Finance 3 3	Prin, of Accounting
Foreign Language or	General Psychology
American Government	Foreign Language, American
Introduction to Business	Government, or History 3 3
Military Science (Men) 2 2	Military Science (Men) 2 2
Physical Education (1)(1)	Physical Education(1)(1)
Hygiene (Women)	
THE JUNIOR YEAR 1st 2nd	THE SENIOR YEAR 1st 2nd
THE JUNIOR YEAR 1st 2nd SEMESTER	THE SENIOR YEAR 1st 2nd semester
5	
SEMESTER Advanced Accounting or	SEMESTER Advanced Shorthand 4 4
SEMESTER Advanced Accounting or Approved Elective	SEMESTER
SEMESTER Advanced Accounting or Approved Elective	SEMESTER Advanced Shorthand 4 Advanced Typewriting 3
SEMESTER Advanced Accounting or Approved Elective 3 3 Business Correspondence 3 3 Elementary Shorthand 4 4	SEMESTER Advanced Shorthand 4 Advanced Typewriting 3 Secretarial Prin. and Prac. 3 Office Techniques and Machines 3
SEMESTER Advanced Accounting or Approved Elective 3 3 Business Correspondence 3 3 Elementary Shorthand 4 4 Elementary Typewriting 3 3	SEMESTER Advanced Shorthand 4 4 Advanced Typewriting 4 4 Secretarial Prin. and Prac. 3 3 Office Techniques and Machines 3 Teaching Business Subjects
SEMESTER Advanced Accounting or Approved Elective 3 3 Business Correspondence 3 3 Elementary Shorthand 4 4 Elementary Typewriting 3 3 Educational Psychology 3	SEMESTER Advanced Shorthand 4 4 Advanced Typewriting 3 3 Secretarial Prin. and Prac. 3 3 Office Techniques and Machines 3 Teaching Business Subjects 3 Observation and Student
SEMESTER Advanced Accounting or Approved Elective 3 3 Business Correspondence 3 3 Elementary Shorthand 4 4 Elementary Typewriting 3 3	SEMESTER Advanced Shorthand 4 4 Advanced Typewriting 4 4 Secretarial Prin. and Prac. 3 3 Office Techniques and Machines 3 Teaching Business Subjects

AGRICULTURAL EDUCATION

The curriculum in Agricultural Education, designed to prepare teachers of vocational agriculture for the secondary schools, is offered in the College of Agriculture.

HOME ECONOMICS EDUCATION

An Home Economics Education sequence is offered by the Department of Home Economics in the College of Agriculture. Students who take this course are qualified to teach Home Economics in the secondary schools of Vermont and certain other states, or to become home demonstration or 4-H Club agents.

COURSES OF INSTRUCTION

ELEMENTARY EDUCATION

Associate Professors Sullivan and Pappoutsakis; Assistant Professors Adams and Coleman; Mrs. Mills.

1 INTRODUCTION TO EDUCATION. Three hours. 1 A survey of American education; the aims and underlying principles; the elements of psychology as applied to the learning process. Observation in demonstration and other public schools. Mrs. Adams

2 CHILD DEVELOPMENT AND BEHAVIOR. Three hours. II The physical, mental, social, and emotional development of the child; a study of methods of guiding this development. Observation in elementary schools. Mrs. Adams

5-6 ART EDUCATION.

The development of creative ability and art appreciation through drawing, painting, lettering, and crafts. Two double periods.

Mrs. Mills

Three hours. I. II

For ARTS AND CRAFTS see Art 11. 12.

11-12 SCHOOL MUSIC I.

Ear training, music reading and writing, elementary theory, history and appreciation. Mr. Pappoutsakis

13-14 SCHOOL MUSIC II.

Basic principles in elementary school music teaching. Prerequisite: School Music I.

21-22 TEACHING READING.

- 21 Principles. Principles underlying the teaching of reading; materials of instruction; reading readiness; vocabulary development; development of correct study skills; observation in the demonstration school.
- 22 Diagnosis and correction. Special emphasis upon diagnosing reading disabilities; use of standard tests; corrective measures; improvement of reading and study skills.

Prerequisite: Elementary Education 1-2; Psychology 1-2; 21 or teaching experience for 22.

32 TEACHING ARITHMETIC.

Subject matter and modern methods of presentation; the aims and principles of teaching arithmetic; the use of standard tests in arithmetic: observation in the demonstration schools. Mrs. Adams

Three hours. 1, 11

Three hours. 1, 11

Three hours. I. II

Mr. Pappoutsakis

Three hours. II

Elementary Education

33 TEACHING ENGLISH.

An analysis of modern trends in teaching the language arts: oral and written expression, spelling, handwriting, and literature; a study of the principles and techniques of teaching them. Observation in the demonstration school. Miss Sullivan

34 LITERATURE FOR THE ELEMENTARY SCHOOL. Three hours. 11 Literature "old and new" for children. The course aims to acquaint students with the great body of both traditional and modern literature in prose and poetry, to help them to appreciate literature suitable for children at different age levels, and to establish some criteria for judging books for children. The principles and techniques of story telling, as well as practice in this art, are an integral part of this course.

> Miss Sullivan Three bours. 1

41 TEACHING SOCIAL STUDIES AND SCIENCE. Subject matter and procedures applicable to the teaching of social studies including geography, history, and topics of current importance; the teaching of elementary science; the integration of social science and elementary science with other subjects of the elementary school; observation in the demonstration schools. Mr. Huden

42 AUDIO-VISUAL AIDS.

A study of audio-visual aids in instruction and learning; sources of materials; development of skill in using motion pictures and other audio-visual aids. (Not offered in 1952-53.)

43-44 THE CHILD AND THE CURRICULUM. The organization and management of the school and the application of principles and techniques in the various areas of the curriculum. The aim is to familiarize students, through observation and participation, with the objectives and practices in the elementary school and with some instructional materials used in these practices. Miss Sullivan

61-62 TEACHING PHYSICAL EDUCATION I. One hour. 1, 11 The theory of play, the contribution of physical activities to the mental and physical well-being of children; a repertoire of recreational activities for each elementary grade; preparation in methods of teaching; evaluation of results. Miss Coleman

101 TEACHING ART.

Purposes, methods, and problems of modern art education are studied and discussed. Students explore the possibilities of various media and Mrs. Mills processes.

Three hours. 1

Three bours. II

Two hours. 1, 11

Three hours. 1

105-106 PRACTICUM IN ELEMENTARY EDUCATION. Six hours. 1, n The development of competence in teaching, through applying the principles and techniques previously studied. Guided practice teaching under skilled critic teachers; a review of the curriculum, including materials of instruction, organization and management of the elementary school, and professional and community relationships. • Miss Sullivan and Staff Prerequisite: senior standing. 111-112 TEACHING PHYSICAL EDUCATION II. One hour. 1, 11 The development of a program of physical activities to promote the best physical development of pupils in the elementary schools; the teaching of physical activities including games and folk dances; the organization of school and playground activities, including supervised and pupil initiated games; observation, participation, and student teach-

116 HEALTH EDUCATION.

The development of a program of health education for the elementary school including health appraisal, health needs, health adjustments, and conservation based upon scientific knowledge of the developing human body and its functioning. Miss Coleman

JUNIOR HIGH SCHOOL EDUCATION

Professors Huden and Pearl; Assistant Professors Adams and Dean

2 JUNIOR HIGH SCHOOL MATHEMATICS.

A review of arithmetic and elementary algebra from the viewpoint of the prospective junior high school teacher; the aims and objectives determining the selection and presentation of subject matter; selected advanced topics in arithmetic; development of skill in computation and in solving problems; use of computing devices; graphs and scale drawings.

Prerequisite: Mathematics 1.

61-62 THE JUNIOR HIGH SCHOOL CURRICULUM. Three hours. 1, 11 The curriculum of the junior high school, its objectives and content; proper grade placement of curriculum content; laboratory experience in junior high schools; appropriate teaching procedures: observation and participation in various subject fields and on different grade levels; appraisal of the results of educational effort. Mr. Pearl and Staff Prerequisite: Psychology 1-2.

101 ORGANIZATION AND MANAGEMENT.

The organization, administration, and management of the junior high school for the efficient attainment of educational objectives; the estab-

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ing.

Mr. Huden

Three hours. 1

Two bours. 11

Miss Coleman

Three hours. II

Junior High School, Secondary Education

lishment of desirable routine; the practice of democratic procedures; the attainment of individual and group self-discipline. Mr. Pearl Prerequisite: Psychology 1; junior standing.

108 OBSERVATION AND STUDENT TEACHING. Three to six hours. II The integration of the various subjects in the junior high school education curriculum on the operative level through directed experience; the development of teaching competence and efficient school and class control, leading to individual and group self-discipline and good citizenship on the part of pupils; experience in discharging the responsibilities of the teacher to the school and the community; instructional planning; observation, participation, and directed teaching leading to responsible student teaching.

Prerequisite: 61-62; 101; Sec. Ed. 107.

111 VERMONT HISTORY.

The political, industrial, economic and social development of Vermont from the period of settlement to the present; the influence of Vermont in the federal union; the part played by the State in national emergencies and enterprises. Mr. Dean

Prerequisite: senior standing; History 21, 22.

SECONDARY EDUCATION

Professors King, Carpenter, Douglass, Huden, Kent and Pearl; Assistant Professor Adams

1 PRINCIPLES OF EDUCATION.

The aims and principles of American education; the organization of the public school system; enrollments; qualifications of teachers; study of the curriculum; principles of learning. Prerequisite: junior standing; Psychology 1.

3 HISTORY OF EDUCATION.

The historical development of educational theory and practice as influenced by the leading educational theorists and by the most significant social movements with emphasis on modern developments. Prerequisite: junior standing; Psychology 1.

7 EDUCATIONAL PSYCHOLOGY.

The application of psychological principles and the results of experiments and investigations to the instructional process; the influence of heredity, growth, learning, and the physical and social environments upon the individual; the measurement of intelligence and achievement. Prerequisite: junior standing; Psychology 1. Mr. Huden

Mr. Pearl

Three hours. I

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Mrs. Adams

Three hours. 1

Three hours. I

Three bours. 1

8 PSYCHOLOGY OF ADOLESCENCE. Three hours. II The growth of youth from the close of childhood to the threshold of adulthood; the physical, emotional, social, moral, and intellectual

development of boys and girls.

Prerequisite: junior standing; Psychology 1.

G102 PHILOSOPHY OF EDUCATION.

Educational theory based upon psychological principles, the contributions of leading educational philosophers, and present day social needs; the relationships of education to social welfare and the demands made upon education by a democratic society.

Mr. Huden

Three bours. n

Prerequisite: junior standing; one course in Education.

G104 HIGH SCHOOL ADMINISTRATION. Three hours. n The objectives, administration, and supervision of the secondary school with particular reference to community and professional relationships; pupil guidance; curricular and extra-curricular activities. Prerequisite: junior standing; Sec. Ed. 1 or 3. Mr. King

G107 SECONDARY METHODS AND PROCEDURES. Three hours. I General methods of secondary school instruction; problems of classroom management; pupil diagnosis and guidance; observation and participation in selected secondary schools of the State.

Prerequisite: satisfactory completion of Sec. Ed. 1; senior standing; high standing in professional subjects and in the field of specialization; approval by the Department of Secondary Education. Mr. Pearl

G108 STUDENT TEACHING IN SECONDARY SCHOOLS.

Three to six hours. II Students are assigned to observe, participate in classroom work, and teach in junior or senior high school classes. Their teaching is directed, observed, and criticized by critic teachers, the supervisors of student teaching, and the principals of the schools. Class conferences are held each week. Individual conferences with critic teachers, the supervisors of student teaching, and the principals occur at frequent intervals.

Prerequisite: satisfactory completion of 107; high standing in professional subjects and in the field of specialization; approval by the Department of Secondary Education. Mr. Pearl

G111 EDUCATIONAL MEASUREMENTS. Three hours. 1

An introductory course dealing with the essential principles of measurement in education. Topics include statistics applied to edu-

Secondary Education

cation; improvement of teacher-made measures of achievement; construction of objective tests and inventories; analysis of standard tests. *Prerequisite:* junior standing; Psychology 1. Mr. Huden

G125 TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS.

Three hours. 1

Three hours. п

Special methods in the field of social studies; aims and objectives; motivation; individual differences; selection of teaching material and visual aids.

Prerequisite: 107 or concurrent enrollment in 107; 18 semester hours in social studies. Mr. Huden

G127 TEACHING SCIENCE IN SECONDARY SCHOOLS. Three hours. II A broad view of modern teaching philosophy and how it may be applied in teaching science through methods proved by experience to be workable and effective. (Offered in alternate years, 1953-54.) Prerequisite: 107; 18 semester hours in science. Mr. Huden

G150 GUIDANCE.

The underlying principles of guidance and the development of a guidance program for the school; the organization of the school program to meet individual needs of pupils; the use of tests in guidance; ways of meeting personality and behavior problems; the guidance function of the home room; the development and use of cumulative records; counseling pupils with reference to ethical and health problems; leisure time activities, educational programs and vocational goals.

Prerequisite: one course in Education; Psychology 1. Mr. Pearl

G152 TEACHING LATIN IN SECONDARY SCHOOLS. Three hours. II The place of Latin in the curriculum; the aims of Latin teaching; ways of studying vocabulary, syntax, and derivatives; the selection and use of textbooks and illustrative material. Required for recommendation to teach Latin.

Prerequisite: Latin 102.

Mr. Kent

G156 TEACHING MATHEMATICS. Three bours. II The place of mathematics in the curriculum, organization of subject matter, aims and practices in teaching.

Prerequisite: junior standing; teaching field in mathematics. Mr. Huden

G157 TEACHING MODERN LANGUAGES. Three hours. I A survey of past and present-day methods and procedures, including those sponsored by the Army and Navy. Readings in textbooks, periodicals, and other publications.

Prerequisite: junior standing; concentration in modern language.

Mr. Carpenter

G197-198 PROBLEMS IN EDUCATION (credit to be arranged). 1, П Individual work on a problem involving research. Problem to be selected by the student in consultation with a staff member. Enrollment by permission of the Dean and the staff member who will direct the study. Open to seniors and to graduate students. Staff G201, 202 RESEARCH IN EDUCATION Three hours. 1, 11 Problems in present-day education studied by individuals and the class; methods of investigation and standards for the presentation of material; thesis writing; presentation of individual and committee reports. Prerequisite: graduate standing. G211 PERSONALITY DEVELOPMENT AND MENTAL HYGIENE. Three hours. I or II The common social and individual adjustments of normal people; typical varieties of adjustive behavior and factors which determine successful adjustments; the effect of experience in the family, school and community upon social and emotional development of persons; a

program of mental hygiene emphasizing desirable adjustments. *Prerequisite:* graduate standing, one course in general psychology and one in principles of education. *Mr. Eakin*

G230 SEMINAR IN EDUCATIONAL ADMINISTRATION. Three hours. II Problems of school organization and structure, school finance, school buildings, personnel policies, educational program, and public relations. Individual and group investigation, report, and discussion.

Prerequisite: graduate standing; one course in administration or experience in the field. Mr. King

G291-292 THESIS RESEARCH.

Three hours. 1, 11

Candidates for the degree of Master of Education may elect with the approval of the Dean and the Director of Graduate Study to complete a thesis in lieu of six hours of course work.

BUSINESS EDUCATION

Associate Professor Nulty

102 PRINCIPLES OF BUSINESS EDUCATION. Three hours. II Basic principles, practices, and problems of and trends in business education.

Prerequisite: Psychology 1; Secondary Education 1 or 7. Miss Nulty

Business Education, Industrial Education

- Three hours. 1 105 TEACHING BUSINESS SUBJECTS. Principles and techniques in the organization and the teaching of business subjects in the high school. Miss Nulty Prerequisite: 102
- Three or four hours. II 110 OBSERVATION AND STUDENT TEACHING. Directed observation and supervised practice in teaching business subjects in a junior or senior high school in or near Burlington. General conference once a week; individual conferences with supervisors and training teacher. Continuation of the study of special methods. Prerequisite: senior standing; 105; approval of Departments of Education and Economics. Miss Nulty

INDUSTRIAL EDUCATION

Messrs. Graeme, Havens, Marshall, Perkins and Russo

Three bours. 1 **1 PRINCIPLES OF VOCATIONAL EDUCATION.** The history, principles, and problems, including the early apprenticeship system; state and federal legislation and aid; modern trends in industrial education and industrial arts education. Mr. Perkins

2 METHODS IN VOCATIONAL EDUCATION. Three hours. II The basic methods of industrial education; an integration of general and special methods of instruction effective in industrial education with the procedures used in analyzing a trade or occupation for determining the instructional content and arrangement of trade content into courses Mr. Perkins of instruction.

3 DEVELOPMENT OF INSTRUCTIONAL MATERIAL. Three hours. I Factors underlying appropriate selection and preparation of material, the material available from various industrial companies, and the development of plans for effective presentation. Mr. Perkins

Three hours. II 4 TEACHING INDUSTRIAL AND RELATED SUBJECTS. Making the necessary connections between the more general courses in education and the specific teaching of industrial subjects, based upon psychological aspects of learning as applied to shop and related subjects, lesson plans, textbooks, notes, demonstration, conference, testing, and audio-visual aids. Mr. Perkins

7 INDUSTRIAL EDUCATION SURVEY. Three hours. 1, 11 An introduction to the problems and procedures of teaching industrial arts and trade and industrial subjects. The course includes trips to various high schools for the observation of shop organization and teaching methods, and during class time, the students' observations are Mr. Perkins analyzed and discussed.

8 TESTING IN INDUSTRIAL EDUCATION. Three hours. II Construction of informal manipulative and written tests; use of standardized mechanical aptitude and achievement tests; construction and use of rating scales; scoring and grading; interpretation of test results. Prerequisite: Industrial Education 1 & 2. Mr. Perkins 31-32 WOODWORKING SHOP. (0-9) Three hours. I. II Designed to give familiarity with the different types of material, experience in the use of machinery and hand tools while producing various practical articles of craftsmanship. (Offered in alternate Mr. Russo years, 1952-53.) Three hours. 1, 11 33-34 GENERAL SHOP. (0-9)Designed to aid the prospective teacher to plan and conduct classes in shop work using modern materials and methods. (Offered in alternate years, 1953-54.) Mr. Russo 37-38 AUTOMOBILE SHOP. (0-9). Three hours. I. II Practical work on the repair and maintenance of automobiles and internal combustion engines. Laboratory and conference periods according to the needs of the student. (Offered in alternate years, 1953-54.) Mr. Havens 39-40 MACHINE SHOP. (0-9)Three hours. 1, 11 Machine practice, operating standard machine tools, producing various machines and small tools to be used later as projects in courses in the schools. (Offered in alternate years, 1952-53.) Mr. Marshall **106 STUDENT TEACHING IN INDUSTRIAL EDUCATION.** Three to six hours. II Students are assigned to observe and teach industrial education subjects in junior high school, senior high school or vocational school classes. Their teaching is directed, observed and evaluated by critic teachers, the supervisors of student teaching and the principals or directors of the schools. Individual conferences with the students, the critic teachers, the supervisors of student teaching and the prin-

Prerequisite: Senior standing; Industrial Education 1 & 2.

cipals or directors occur at frequent intervals.

Mr. Perkins

NURSING

BASIC NURSING CURRICULUM

This four and one-half year curriculum is designed to provide the elements of a general college education together with the professional education for nursing. On completion of the program the student receives the degree of Bachelor of Science in Nursing.

The first year is spent at the University. Following this year there is a summer session of ten weeks, during which the student has an introduction to nursing arts with supervised practice in the Mary Fletcher Hospital, which adjoins the campus.

The second and third years are spent in hospital schools of nursing which are cooperating with the University in providing clinical instruction and nursing experience: Children's Hospital in Philadelphia, Butler Hospital School of Psychiatric Nursing Education in Providence, and the Mary Fletcher Hospital. During the first year in the clinical affiliation fifteen hours of college credit will be carried at the University. During these years there are in general six hours a day for clinical experience in hospitals and two hours a day for class instruction.

In the fourth year there is a two months' affiliation in public health nursing with the Visiting Nurse Association of Providence, R. I.

The second semester of the fourth year and the first semester of the fifth year are spent at the University with further study in academic and professional subjects.

Applicants must satisfy general admission requirements of the University. High school courses in biology and chemistry are highly desirable.

Following is an outline of the course of study.

FIRST YEAR	Ist 2nd SEMESTER	FOURTH YEAR	1st 2nd semester
English Composition		Social and Health Aspects	
Chemistry (Applied to Nu	sing) 5 4	of Nursing	
Zoology		Nursing Seminar	
Human Anatomy		English	
History of Nursing		History	
Orientation to Nursing,		*Electives	
incl. Hygiene Pharmacology Physical Education	· 1	FIFTH. YEAR English History	
FIRST SUMMER SESSION	—10 weeks	Nursing Seminar	
Bacteriology		*Electives	
Nutrition and Cookery			
Nursing Arts		* Electives may include Phi nomics, Principles of Tea	
SECOND YEAR		Psychology, Abnormal Psy	
Speech		Family Relations.	
Psychology			
Sociology			

NURSING EDUCATION CURRICULUM FOR GRADUATE NURSES

The University offers a curriculum in Nursing Education for nurses who meet its entrance requirements and are graduates of accredited schools of nursing, leading to the degree of Bachelor of Science in Nursing Education. There are three fields of concentration: Teaching Nursing Arts, Teaching a Basic Science, and Management of the Hospital Nursing Unit and Clinical Teaching.

Credit toward this degree, up to a maximum of forty-five semester hours, is allowed for work completed at an approved hospital school of nursing. The amount of credit to be allowed is determined by an examination which is given during the first semester to all who have enrolled for work toward a degree. The test is administered in cooperation with and scored by the Department of Measurement of the National League of Nursing Schools. A fee of \$5.00 is charged for this examination.

As candidates for the degree, students are required to complete the following: English, 12 hours; History, 6 hours; Biological Science, 8 hours; Psychology, 6 hours; Economics, 6 hours; Sociology, 6 hours; courses in Anatomy and Physiology, Bacteriology, and Pharmacology; and the professional courses. Other courses in science and education may be advised, depending on the field of concentration.

The following professional courses are recommended in all programs: Foundations of Nursing, Trends in American Nursing, Principles of Teaching, Social and Health Aspects of Nursing, Principles of Public Health Nursing, and Curriculum in Nursing. In addition, students who wish to prepare for teaching Nursing Arts are expected to carry the following: Evaluation and Reconstruction of Nursing Arts, Comparative Nursing Practice, Management of the Hospital Nursing Unit, Clinical Teaching, and supervised field experience in teaching Nursing Arts. Students who wish to prepare for positions as supervisors, head nurses, and clinical instructors are expected to take courses in Management of the Hospital Nursing Unit and Clinical Teaching. All students may be required to complete six credit hours of field experience in their field of concentration. Students who wish to prepare to teach a basic science will have additional courses in Chemistry, Anatomy and Physiology, and Bacteriology with experience in student teaching in one of these.

Nursing

COURSES OF INSTRUCTION

Professors Crabbe, Gallagher; Assistant Professors Lamden, Oakley, Okey, Schein; Misses Fox, Ichter, Rockwood

BASIC NURSING COURSES

1-2 ORIENTATION TO NURSING (HYGIENE).

Two hours; three hours. 1, Π An orientation to the study of nursing through an understanding of health conservation and its relationships to the individual and the profession.

Basic principles, techniques, and skills of nursing, with emphasis on an approach to the patient as an individual. The principles of hygienic measures, hospital housekeeping, and the role of the nurse as teacher. Class instruction, demonstrations, and supervised hospital practice. Freshman year. Miss Fox

3 NURSING ARTS.

Three hours. Sum.

Principles underlying more advanced nursing measures and skills, including the principles and practice of medical and surgical aseptic technique, administration of medications and irrigations, application of heat and cold, care of the acutely and chronically ill, bandaging, and emergency nursing. Class instruction, demonstrations, supervised hospital practice. *Prerequisite:* 1-2. *Miss Fox*

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5 HISTORY OF NURSING.

The historical development of nursing from the Christian era to the present, tracing the rise of nursing as an educational system.

Miss Crabbe

6 PROFESSIONAL ADJUSTMENTS.

An orientation to the personal and professional adjustments inherent in a career in nursing. Miss Crabbe

7 PHARMACOLOGY I.

Methods of making solutions and calculating dosages; the nurse's responsibility in the administration of medicines; the physiological action, therapeutic uses, dosages, and toxicology of commonly used drugs. Miss Oakley

312-00 ± 0.0

Three hours. 1

Two bours. Sum.

One hour. Sum.

9-10 CHEMISTRY FOR NURSES. Five hours; four hours. I, II Inorganic, organic and biological chemistry with special emphasis on the integration of the principles of chemistry in situations dealing with sickness and health. The course is taught in the Medical School.

Messrs. Schein and Lamden

12 BACTERIOLOGY.

Four bours. 11

Principles of bacteriology as applied to nursing; sources of infection, resistance to disease, and production of immunity. Lectures, demonstrations, laboratory. Drs. Gallagher and Okey

14 HUMAN ANATOMY.

Four bours. Sum.

Three hours. 1, 11

A survey of the gross and microscopic structure of the human body. Miss Ichter

101-102 NURSING SEMINAR.

An integration of scientific principles of chemistry, physiology, and microbiology in total nursing situations. Typical disease conditions are presented and nursing care plans are analyzed. Open to basic students in the fifth year and to a limited number of graduate nurses by permission. Miss Crabbe

The following unnumbered courses are taught during the third and fourth years in the schools affiliated with the following hospitals: Children's Hospital of Philadelphia, Butler Hospital of Providence, and Mary Fletcher Hospital.

MEDICAL DISEASES AND MEDICAL NURSING INCLUDING MEDICAL SPECI-ALTIES: The development of medical science, causes and manifestations of disease; etiology, symptoms, clinical signs, treatment and prevention of medical diseases, discussions and demonstrations of nursing procedures and nursing care studies. Three months' experience in the care of medical patients on the hospital wards is correlated with the instruction.

- SURGICAL NURSING INCLUDING SURGICAL SPECIALTIES: Causes, symptoms, treatment, and prevention of surgical conditions. The principles and methods of surgical asepsis, nursing care of surgical patients, including social, emotional, and mental aspects. Along with the class instruction and clinics the students are assigned for four months to the care of a wide variety of patients with surgical conditions.
- PSYCHIATRIC NURSING: The more common psychiatric disorders; problems surrounding hospitalization, special therapeutics. The course is taught in a psychiatric hospital during a three months' affiliation in experience in the care of the mentally ill.

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Nursing

- PEDIATRIC NURSING: The growth and development of the child; principles in the care of well and sick infants and children; lectures and clinical presentation of the etiology, symptoms, and treatment of diseases of infancy and childhood; given during a three months' affiliation in a hospital for children.
- PHARMACOLOGY II: The more commonly used drugs, their relation to the treatment of disease, dosage, administration, physiological and therapeutic actions, idiosyncrasies, cumulative and minor toxic symptoms, antidotes and emergency treatments.
- ADVANCED NURSING ARTS: The more comprehensive nursing techniques and skills in the care of the patient. Demonstrations and discussions of complete nursing care.
- OBSTETRIC AND GYNECOLOGICAL NURSING: Deals with anatomical, physiological, and pathological aspects of pregnancy and care of the newborn; emphasis is placed on nutritional and emotional needs and family. relationships.
- DIET THERAPY: Deals with principles and methods of handling special dietaries in the treatment of disease; includes practice in teaching patients and their families to adjust to dietary needs.

NURSING EDUCATION (FOR GRADUATE NURSES)

- 103. EVALUATION AND RECONSTRUCTION OF NURSING TECHNICS. Three hours. 1 or 11 The use of scientific principles and methods in analyzing, comparing, and reconstructing nursing procedures. Opportunity for class discussion, criticism and revision. Miss Fox
- 104. TEACHING NURSING ARTS.

The objectives of the course in nursing arts, the subject matter and methods of presentation, demonstration of nursing methods and techniques, methods of supervision in the classroom and hospital, the development of an adequate outline of instruction to meet the needs of the student. Miss Fox

108 PRINCIPLES OF TEACHING.

The development of sound educational procedures and principles for effective and successful classroom teaching; the guidance and fostering of learning; management techniques; the qualities of the effective teacher: evaluating teaching. Miss Crabbe

Three hours. 1 or 11

Three hours. 1 or 11

109 THE CURRICULUM IN NURSING. Three bours. I or II Principles and methods of curriculum making; philosophy, aims, sources, and techniques in planning the program of study. Problems of installing the curriculum; selection and use of textbooks; arrangement and general content of course of study.

Prerequisite: Principles of Teaching, Educational Psychology, permission of the instructor. Miss Crabbe

113 MANAGEMENT OF THE HOSPITAL NURSING UNIT.

Three hours. 1 or 11 The nursing service, principles of management, organization and management of the personnel, teaching responsibilities of the head nurse. Prerequisite: Educational Psychology, permission of the instructor.

Miss Oakley

114 CLINICAL TEACHING.

Three hours. 1 or 11

The organization of clinical teaching; evaluation of the results. Prerequisite: Educational Psychology, Principles of Teaching, Management of the Hospital Nursing Unit, clinical experience as head nurse, permission of the instructor. Miss Oakley

116 SOCIAL AND HEALTH ASPECTS OF NURSING. Three hours. 1 or 11 Major social and health problems and the related responsibilities of the nursing profession; analysis of complete patient care in the home and community; methods for integration of social and health aspects in the nursing school curriculum.

117-118 FOUNDATIONS OF NURSING AND MODERN TRENDS.

Three hours. 1, 11

The origins, the philosophy and basic concepts of nursing education; present trends of professional nursing, consideration of probable future developments. Miss Oaklev

120 PRINCIPLES OF PUBLIC HEALTH NURSING. Three hours. n

Analysis of the fundamental responsibilities of the community nurse and the principles which guide the development of effective community nursing service.

Prerequisite: 116.

121 FUNDAMENTALS OF ORTHOPEDIC NURSING. Three hours. 1 or 11 Considers total nursing care for patients with orthopedic conditions. Considers also the application of general principles of posture and body mechanics and the prevention of orthopedic defects in all nursing situations.

122 FUNCTIONAL ANATOMY.

Two bours. I or II The study of the microscopic and macroscopic structure of the body in relation to their functions. Miss Ichter

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Nursing

125 MODERN DEVELOPMENTS IN CARE OF THE SICK. Two hours. 1 or 11 Applications of modern science in the care of the sick. Separate units on drug therapy; nutrition; pediatrics, geriatrics; orthopedics; obstetrics. The course is taught in the medical college with observation and demonstration in the Mary Fletcher Hospital.

131 MEASUREMENTS IN NURSING EDUCATION. Three hours. I or II Principles of informal test construction; analysis of standardized tests; survey of common measures of central tendency and variability in field of educational measurements. Application in evaluating and constructing tests in nursing. Miss Crabbe and others

134 LEGISLATION AND PRINCIPLES OF ACCREDITATION.

Three hours. 1 or H

Legislation which controls nursing education and practice in various states; essentials of a sound nurse practice act, the organization and carrying on of legislative programs; principles of accreditation and major accrediting groups. Miss Oakley

136 ADMINISTRATION IN SCHOOLS OF NURSING. Three hours. 1 or 11 Administrative problems in the hospital school of nursing relative to nursing service and nursing education; preparation of faculty; organizing and planning curriculum.

Prerequisite: graduation from accredited school of nursing, senior standing, and experience in teaching or supervision. Miss Crabbe

138 STUDENT TEACHING. Three to six hours. 1 or II Teaching a unit or course under guidance of a faculty adviser. The science teaching is given in the basic program of the University curriculum, the clinical teaching in the school of nursing of the Mary Fletcher Hospital. Misses Crabbe, Fox, Ichter and Oakley

The School of Dental Hygiene

The School of Dental Hygiene, established in the fall of 1949 on authorization and a grant of money by the State Legislature of Vermont of 1949, offers a two-year curriculum leading to a Certificate in Dental Hygiene. The purpose is to meet the ever-increasing need for dental health service. Students who are residents of the state have special tuition rates granted on agreement to stay in the state for two years after graduation for the purpose of furthering the dental health programs of the state.

The curriculum conforms to the requirements for accrediting of schools of Dental Hygiene as adopted by The Council on Dental Education of the American Dental Association on June 20, 1951. On successful completion of this curriculum, the student is eligible to take various examinations given by the State Board of Dental Examiners for licensing by that body.

Graduates of this school will be qualified to give oral prophylactic treatment; to chart the mouth, and to carry dental health education into the private dental practice, public institutions, hospitals and industrial clinics. The hygienist may be called upon to perform the following subsidiary functions as the supervising dentist may direct or approve; to X-ray teeth and develop X-ray films; to assist with laboratory work; to make appointments and keep office records; to give demonstrations of the proper method of using a toothbrush and massaging the gums; to lecture on oral hygiene, and to teach oral hygiene and the relation of diet to oral health. The role of the dental hygienist in the achievement of oral health is an extremely important one, and opportunities for wellrewarded service are practically unlimited.

The course of study is designed to give the student a background of knowledge sufficient to enable her to perform intelligently the tasks of her profession. A general scientific background is acquired by courses in chemistry, bacteriology, anatomy, and physiology. Courses specifically relating to dental problems give the student an insight into the field of dentistry and dental health. English composition and public speaking teach the individual to express herself clearly on paper and by word of mouth. The proper approach to the patient is taught by courses in psychology and sociology. Skill and self-confidence are acquired by extensive work during the second year in the dental clinic.

The School of Dental Hygiene operates a ten chair clinic and offers its service for examination and charting of the teeth, prophylaxis treatments and the teaching of dental health to students, employees and faculty members of the University, in addition to the school children in surrounding areas.

The School of Dental Hygiene

Enrollment is limited to women who are high school graduates and otherwise eligible to enter the freshman class of the University. Prospective applicants are invited to write the Director of Admissions for detailed information concerning such matters as requirements for admission and expenses. High school subjects which are helpful prerequisites include algebra, chemistry, physics or biology. Attributes necessary for success in this curriculum are good health, emotional stability, interest in the work, and the ability to get along well with people. Since the laboratory equipment in the School of Dental Hygiene is limited, prospective students are advised to submit their application by May of their senior year in high school.

OUTLINE OF DENTAL HYGIENE CURRICULUM

THE FRESHMAN YEAR

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Psychology	3	3
Sociology	3	3
Oral Pathology	2	
Radiology	1	***
Public Health	2	
Clinic Practice	5	5
Dental Health Education	•••	2
Pharmacology and Anesthesia		1
Ethics and Office Management,		
Dental Assisting		2
Public Speaking		3

Three hours. II

COURSES OF INSTRUCTION

Dr. J. Edward Marceau, Director. Assistant Professor Okey; Drs. Conklin, Head, Heininger, Reiman, Sawabini, Slack; Mrs. Heininger; Miss Quinby

1 ORIENTATION TO DENTAL HYGIENE. (1-0) One hour. I A general study of the dental hygiene movements; history, growth, status of dental hygienist, scope of operations, standards and ethics, personal qualifications and personality traits. Miss Quinby

2 INSTRUMENTATION. (0-6)

The principles and technics of instrumentation for scaling and polishing teeth with use of manikins. Examination and charting of mouth and general clinical procedures. Miss Quinby

Study of anatomy of head and neck; the form and structure of teeth, including nomenclature and relationship; calcification and eruption of teeth; drawing, carving and identification of individual teeth.

Dr. Heininger

Two bours. 1

Four bours. I

21 GENERAL AND DENTAL HISTOLOGY AND EMBRYOLOGY. (1-2)

Introductory study of the microscopic structure and development of the basic tissues of the body and oral cavity. Emphasis is based upon dental and oral material. Use of microscope, colored slide projections and drawings comprise laboratory work. Dr. Reiman

31 FIRST AID. (1-0)

The basic principles of First Aid are taught to the student in order that she may prevent and cope with emergencies that arise in the dental office. Mrs. Heininger

51 ORAL PATHOLOGY. (2-0)

An introduction to general pathology with special consideration of the more common diseases affecting the human body. Emphasis is placed upon the pathology of the teeth and their supporting structures.

Dr. Sawabini

One hour. 1

Two hours. 1

52 PHARMACOLOGY AND ANESTHESIOLOGY. (1-0) One hour. II Lectures on the reaction and uses of drugs. Also a study of anesthesia, general and local, as it is used in dental practice.

61 RADIOLOGY. (1-1)

The study, demonstration, and practice of the fundamentals of intra-oral radiographic technic including electrophysics; angulation of machine; placing of films in mouth and complete processing of films. Dr. Slack

71 PUBLIC HEALTH. (2-0)

Public health as it applies to community sanitation; communicable disease control; organization, powers and function of health departments and voluntary health agencies; relation of dentistry to public health. Dr. Okev

72 DENTAL HEALTH EDUCATION. (2-0)

Two hours. II Demonstrations and practical applications of modern methods of dental health education. Study of teaching methods; visual aids; surveys and statistics; materials; campaigns; school dental programs.

Miss Ouinby

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Two bours. 1

One hour. 1

¹¹ DENTAL ANATOMY. (2-4)

The School of Dental Hygiene

81-82 DENTAL HYGIENE CLINIC PRACTICE. (0-15) Five hours. I, II Actual clinic practice on patients beginning with simple cases and gradually progressing to more difficult cases with children and adults. Practice in the field is done by the student at local dental clinics, hospitals and in Children's Homes. Miss Quinby and Staff

92 DENTAL ASSISTING, DENTAL MATERIALS, ETHICS AND OFFICE MAN-AGEMENT. (2-0) Two hours. II

The principles of professional ethics and economics; office management and essentials of practice building; dental assisting and materials used in dental practice. Dr. Conklin

The College of Medicine

REQUIREMENTS FOR ADMISSION

The minimum requirements for admission to the College of Medicine are three years of college work done in an institution listed among the "Approved Colleges of Arts and Sciences," compiled and published by the Council on Medical Education and Hospitals of the American Medical Association. The College of Medicine requires one year each of English, general chemistry, organic chemistry, physics, biology, and a satisfactory course in quantitative chemistry. Additional work in English, mathematics, and foreign languages is desirable and gives the student a better background for the study of medicine.

While the minimum requirements must be satisfactorily completed yet additional broad and well-planned courses of study in the fields of history, economics, sociology, psychology, philosophy, music and the arts should be included. This is possible where students carefully plan programs of study early in their academic careers. In this way the student develops a broad general background and at the same time prepares himself for the study of medicine. Each of these is equally important. The well-trained physician should be a well-educated person.

Students must satisfactorily complete all requirements for admission to the College of Medicine in any given year by July 1 preceding the September admission.

The Admissions Committee expects applicants to have completed a program equivalent to that outlined but reserves the privilege, at its discretion, to give favorable consideration to applicants with three years of college work of a different type, provided it includes acceptable credits in the required courses.

Eligibility for admission to the College of Medicine of an applicant, who has fulfilled the entrance requirements as stated, is determined by the Admissions Committee of the College of Medicine on the basis of the following:

- 1. Personality and general fitness of the applicant for the study and practice of medicine. This is determined by recommendations and especially by personal interview with the Admissions Committee. Dates for these interviews are announced by the Committee.
- 2. The scholastic record of the applicant in his premedical work. The Medical College Admission Test recommended by the Association of American Medical Colleges is required of each applicant. The scores made in this test are taken into consideration but are not used as a final determinant in accepting students.

Because of limited teaching facilities, a maximum of fifty students is admitted to the entering class. In selection of eligible applicants for admission, the following preferences are, in general, observed by the Admissions Committee.

First preference is given to qualified residents of the State of Vermont. Second preference is given to qualified sons and daughters of alumni. Third preference is given to qualified residents of the northeast New England area outside of the State of Vermont, and to graduates of land-grant colleges in New England.

The State of Vermont by statute requires every resident of the State who enrolls in a curriculum leading to the degree of Doctor of Medicine to sign an agreement to practice medicine in Vermont for the period of one year for each year of enrollment. In lieu of this, the student may refund to the State Treasurer, through the University, the difference between the total tuition paid and the total unit cost to the State of the curriculum pursued.

Individuals selected by the Admissions Committee as eligible for admission, will be required to appear for personal interviews. The Dean's Office will notify such applicants of the appointments for interviews.

Application blanks may be secured from the Dean's Office, College of Medicine, University of Vermont, Burlington, Vermont.

Applications for admission to the class entering in September of any year will close on March 1 preceding the September admission. Applications postmarked up until midnight of the last day of February will be considered. An application fee of ten dollars, payable to the University of Vermont and State Agricultural College, must accompany all applications.

OUTLINE OF THE FOUR-YEAR CURRICULUM

The curriculum of the College of Medicine is designed to train students for the general practice of medicine. Students are encouraged to enter this important field of practice. The courses of instruction are so planned as to afford the best background for the general practice of medicine. This background supplies the best type of training for students who may later elect to enter fields of specialization.

The basic plan of the curriculum centers about clinical teaching. Effort is made to correlate instruction in every year with clinical medicine. By using the clinical approach in laboratory and classroom the student early in his career is brought into contact with the patient.

The student studies first the general structure of the body, its embryological development, the functions of the various organs, the chemical processes taking place in the body and the minute structure of the tissues and organs in health. Then follows consideration of the changes in gross and microscopic anatomy, the variations in the chemical processes and in the functions of organs and tissues under the influence of disease and how such changes give rise to different symptoms and physical signs. The methods of interpreting such findings in arriving at a diagnosis are considered.

The student then studies the methods of investigating diseases, their causes and prevention, as well as the remedies used in treatment. The various surgical conditions are considered along with the indications for treatment or operation. Reproduction and development are studied, together with the management of normal and abnormal labor.

Instruction is given by lectures, demonstrations, recitations, seminars, library work, practical courses, laboratory work, clinics and clinical teaching, at the bedside and in the Dispensary. For clinical work the class is divided into small sections. Each student, therefore, receives the personal attention of the instructor and is given every opportunity for the full use of assigned material.

In the First Year courses in anatomy, physiology, biochemistry, histology, embryology, neuro-anatomy and bacteriology are given.

In addition, short orientation courses in psychiatry, chemistry, and the use of the library are given in the first semester of the first year. These courses have a twofold purpose. They are primarily designed to maintain continuity between premedical school work and that given in medical school. Secondarily, through these courses the student learns the need for and the proper use of certain important tools in the field of medicine.

The introductory course in psychiatry emphasizes the basic principles of psychology. It discusses the emotional response of the individual to his environment. It helps the student early in his medical career to recognize and establish causal relationship between psychological factors in the patient's life and disease manifestations.

The short course in chemistry focusses the attention of the student on that subject as a science related in a practical manner to the processes of growth and development, health and sickness, life and death. It emphasizes the basic importance of his already acquired knowledge of chemistry and the practical use of it in the qualitative and quantitative aspects of vital phenomena.

The course of instruction in the use of the library and its facilities aims to make the student aware of the library, the important part it plays in all medical work and the necessity to understand its proper use. The course includes lectures on library organization, administration and services. These are given by members of the library department. Practical exercises in the library are given by faculty members to students so they may become familiar with medical literature, its sources and the proper techniques employed in bibliography. In the Second Year instruction is given in pharmacology, pathology, public health, medicine, surgery, obstetrics, pediatrics and physical diagnosis. Courses in anatomy, physiology and psychiatry are continued. As part of the plan to integrate the student's work in all courses, two-hour correlation conference is held each week during the second semester. This conference is designed to emphasize interdepartmental relationships. Selected cases are presented and students and department members take part in the presentation and discussion.

The work of the Third Year includes continued work in medicine, surgery, obstetrics, pediatrics, and pathology. The third year course in pathology is a continuation of the general course in the second year. Surgical pathology is also included in the work of this year. Radiology and physical medicine are taught throughout the year. The students are also given work in eye, ear, nose and throat, with clinic and ward instruction.

The course in physical diagnosis is continued in the third year. Students are assigned in small sections to the hospital wards, where they take histories and do physical examinations under supervision. This work includes case presentation. The weekly correlation conferences of the second year are continued throughout the third year. In this year, the conference again serves the important role of keeping the basic sciences integrated with clinical teaching. Members of all departments take part in the presentations, and all discussions include material from the laboratory and classroom work of the first two years.

The work of the Fourth Year is given on a twelve-month basis. Upon the completion of the work of the third year, the students begin clinical work in the teaching hospitals in rotation. The services are so arranged that sections of one to five students can be assigned to hospitals for periods of one month, allowing each student to have one month of vacation during the year. Such services include medicine, surgery, obstetrics, pediatrics, surgical specialties, and general services. These services are given at the Mary Fletcher Hospital, the Bishop DeGoesbriand Hospital, the Fanny Allen Hospital, and the Burlington Dispensary with the City Service under the City Physician.

Rotating services of two months are given at the Vermont State Hospital for Mental Diseases at Waterbury, where clinical work in psychiatry, clinical medicine and psychosomatic medicine is given. Individuals in sections are given a month in residence at the Trudeau Sanatorium in Trudeau, N. Y., or at the Veterans Administration Hospital in Sunmount, N. Y. Two periods of service, one month each, are given at the Putnam Memorial (Bennington), Springfield, Rutland, and Brightlook (St. Johnsbury) Hospitals.

During the year students attend autopsies under the instruction of the Department of Pathology. Students are given opportunity to follow these cases through with study of the gross specimens and microscopic sections.

All fourth-year students attend ward rounds, grand ward rounds, interdepartmental diagnostic conferences and the clinical-pathological conferences. In this manner the student not only receives clinical instruction, but he is constantly kept in touch with the basic work of his first two years in the College of Medicine.

CLINICAL FACILITIES

The normal capacity of the general hospitals in Burlington used by the Medical College is 430 beds. More than 200 additional beds will become available from hospital additions already under construction. At least four hundred of these beds will be used without restriction by the College for clinical teaching. General services at the Putnam Memorial (Bennington), Springfield, Rutland, and Brightlook (St. Johnsbury) Hospitals, increase the number and variety of clinical material.

Other clinical facilities available for student teaching are the outpatient and dispensary services in Burlington, with over 20,000 patients a year; the services of the Vermont State Hospital for Mental Disease at Waterbury, Vermont, with more than 1,250 beds; the Trudeau Sanatorium at Trudeau, N. Y.; the Veterans Administration Hospital for tuberculosis at Sunmount, N. Y.; the Children's Home, the Elizabeth Lund Home, and St. Joseph's Orphanage, in Burlington. The number of children in the three Burlington institutions is more than five hundred.

Admissions to the medical, surgical, obstetrical, and specialty services used for teaching purposes approximate 12,000 annually exclusive of the special facilities just described. This amount of clinical material is adequate for the limited enrollment of the two classes doing clinical work.

Departments of Physical Education

PHYSICAL EDUCATION FOR MEN

Associate Professors Gardner and Post; Assistant Professor Evans; Messrs. LaPointe, Searles and Strassburg

This department aims to train the men students of the University to be healthy, physically and morally fit members of society. It is a required course for all academic freshmen and sophomores. Every new student is given a thorough physical examination. Men who have physical or health defects may be given restrictive work, or may be exempted from the program, depending on the seriousness of the defects. Follow-up examinations are given as need is indicated.

A chapter of Sigma Delta Psi, honorary national athletic society, is maintained. Any student is eligible for membership provided he can meet the performance standards in both athletics and scholarship.

COURSES OF INSTRUCTION

*1-2 PHYSICAL EDUCATION (Basic).

Training in posture, calisthenics, and body-building exercises, the fundamentals and skills of various sports and physical activities, planned to develop and improve skill, coordination, and endurance, to establish regular habits of exercise, and to inculcate intelligent attitudes toward and interest in athletic activities.

Supplemental to this course are the required personal hygiene lectures, giving the student an understanding and appreciation of the factors necessary for health and healthful living.

Two hours weekly required of all academic freshman men.

*11-12 PHYSICAL EDUCATION (Intermediate). One bour. 1, 11 This course is based on a seasonal sports program.

Fall-Football, touch football, cross-country, and calisthenics.

Winter-Basketball, volleyball, indoor track, boxing, wrestling, apparatus and tumbling, handball, swimming, skiing, and calisthenics.

Spring-Baseball, volleyball, track, softball, tennis, handball, and calisthenics.

Two hours weekly required of all academic sophomore men.

* The semester hours listed for Basic and Intermediate Physical Education are in addition to the total number of hours required for a degree in a specific curriculum.

One hour. 1, 11

The Departments of Physical Education

21 ADMINISTRATION AND COACHING.

Football Coaching. The history of the game, its educational implications. Analysis of various systems of play. Instruction in individual and team fundamentals. Strategy, techniques, and generalship. Both theoretical and practical requirements. Mr. Evans

Basketball. History and development of the game. Theory and practice. Technique of fundamentals. Individual and team offense and defense. Analysis of various styles and systems of play. Mr. Evans

Administration. Philosophical and psychological backgrounds of athletics and physical education in educational procedure. The educational, recreational, and health significance of physical education. Organization of athletics, including interscholastic, intramural, etc.; problems of finance, equipment, officials, facilities, and schedules. Mr. Post

Elective for juniors and seniors enrolled in Education Curricula. Elective for seniors in other curricula by special permission. (Offered in alternate years, 1953-54.)

Prerequisite: Physical Education 1-2, and 11-12.

22 HUMAN MECHANICS AND COACHING.

Two bours. II

Two bours. 1

Athletic Injuries. Understanding of the structure and functions of the body. Diagnosis and treatment of athletic injuries. Problems of hygiene and sanitation. Training and first aid. Practical work in massage, taping, and bandaging. Mr. LaPointe

Baseball. History and development of the game. Fundamentals and strategy. Individual and team offense and defense tactics.

Mr. LaPointe

Track and Field. History, traditions, and rules of the sport. Class and individual instruction in the fundamentals and techniques of the various events of the track and field program. Care and conditioning of competitors. Mr. Post

Elective for juniors and seniors enrolled in Education Curricula. Elective for seniors in other curricula by special permission. (Offered in alternate years, 1953-54.)

Prerequisite: Physical Education 1-2, and 11-12.

INTRAMURAL SPORTS

This program, administered by the Department of Physical Education for Men and directed by Professor Post, enjoys a heavy voluntary participation by the students. Competitions are between fraternities, dormitories, independent groups, and individuals. An Intramural Committee aids the director in determining content and policy, making schedules,

The Departments of Physical Education 177

and assigning officials. Contest winners receive suitable awards. The contests include:

Fall—Touch football, tennis, golf.

Winter-Basketball, skiing, handball, badminton, basketball free throw, indoor relays, track, bowling, and volleyball.

Spring-Softball, horseshoe pitching, hexathlon.

Interfraternity athletic competition carries points for both winner and runner-up toward the Traynor Trophy, all-year all-round fraternity championship award.

PHYSICAL EDUCATION FOR WOMEN

Assistant Professors Coleman and Euler; Miss Cleveland

The purpose of the physical education program for women is to provide a variety of activities and opportunities for the individual to develop enthusiasm and competencies to express herself more fully in work and play; to develop and expand her resources for recreation and relaxation; to develop social competencies, understandings and skills in human relation; and to increase skill in evaluating and maintaining her own fitness for living.

Medical and physical examinations are required of all new students and recommendations are made as to the quantity and type of activity advisable. Two years of Physical Education for two periods weekly are required of all college women. This requirement normally should be completed during the freshman and sophomore years.

The courses of instruction are given at the Women's Gymnasium in Southwick Building, in Waterman Building and in the Y.M.C.A.

COURSES OF INSTRUCTION

*1-2 FRESHMAN PHYSICAL EDUCATION. One hour. 1, 11 The freshman course is specifically planned to provide experiences in a variety of sports, dance and fundamentals of movement, to stimulate the desire for optimum fitness essential for well-integrated personality, to develop desirable attitudes and skills in responsible cooperative behavior and democratic understandings for the socially mature person, to develop competencies for revaluating experiences in terms of individual needs and capacity for growth in intelligent self-direction.

178 The Departments of Physical Education

*11-12 SOPHOMORE PHYSICAL EDUCATION. One hour. 1,11 The sophomore course provides opportunities for electing a variety of sports to develop competencies in special interest areas.

- Fall: archery, dance, field hockey, golf, horseback riding, riflery, swimming, and tennis.
- Winter: badminton, basketball, bowling, dance, recreational sports, riflery, skiing, swimming, and life saving.
- Spring: archery, dance, golf, horseback riding, sailing, softball, and swimming.

UPPER CLASS ACTIVITIES

Juniors and seniors may elect to participate in the following activities of the department: modern dance, dance composition, officiating, camp crafts, and recreational leadership.

*41-42 HYGIENE.

One hour. 1, 11

* The semester hours listed for Freshman and Sophomore Physical Education and for Hygiene are in addition to the total number of hours required for a degree in a specific curriculum.

MILITARY SCIENCE AND AIR SCIENCE

THE DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Colonel J. SAMUEL SAUER, U. S. ARMY Professor of Military Science and Tactics
Major GERALD W. GRAY, U. S. ARMY
Major WILLIAM K. BUNNEY, U. S. ARMY
Captain ROBERT F. SMILEY, U. S. ARMY
Captain HUGH J. O'BRIEN, JR., U. S. ARMY
Captain JOHN J. BEAULIEU, U. S. ARMY
Assistant Professors of Military Science and Tactics
Master Sergeant HOWARD R. BERRIMAN, U. S. ARMY
Master Sergeant MAURICE A. PRESTON, U. S. ARMY
Sergeant STEPHEN S. OHLER, U. S. ARMY
Sergeant STEPHEN S. OHLER, U. S. ARMY

THE DEPARTMENT OF AIR SCIENCE AND TACTICS

Colonel EARL H. JACOBSEN, USAF Professor of Air Science and Tactics

Major KENNETH D. HILL, USAF

Captain EDWARD J. ZAWALICK, USAF

First Lieutenant ROBERT J. FREDERICK, USAF

Assistant Professors of Air Science and Tactics

Master Sergeant ANDREW J. LANDA, USAF

Master Sergeant JOHN R. GUGAN, USAF

Master Sergeant JOHN R. TASSEY, USAF

Assistants in Air Science and Tactics

As the University of Vermont and State Agricultural College is a designated land-grant college under the provisions of the Morrill Act approved in 1862, the college is required to maintain military training in its curriculum as its contribution toward national defense.

Two senior division units of the ROTC are maintained at this institution. An Army Infantry ROTC and a Air Force ROTC unit both offer a two-year basic and a two-year advanced course.

The mission of the Reserve Officers Training Corps is to produce junior officers who shall have the qualities and attributes essential to progressive and continued development as officers in the Army or Air Force of the United States. The Military Departments place special emphasis upon "leadership" in assisting graduates to meet any situation in life with success and honor.

THE BASIC COURSE

A two-year course is required of all physically qualified male students except the following:

a. Veterans

- (1) A student who has served on active duty in the Armed Forces for six months will be excused from the Freshman Basic Course.
- (2) A student who has served on active duty in the Armed Forces for one year will be excused from the entire Basic Course.

b. Former ROTC Students

A student who has successfully completed three or more years of the Junior ROTC program at an accredited ROTC institution will be excused from the Freshman Basic Course upon presentation of a military training certificate.

c. Transfers from other institutions

A student who transfers to this institution in his junior or senior year will be excused from the entire Basic Course provided:
(1) No ROTC training was offered at former institution;

(2) He has successfully completed the Basic Course if offered at the former institution.

d. Non-citizens

The class meets at least three periods each week, with a minimum of 90 hours in each academic year. Uniforms, arms, and equipment are furnished the student by the Military Department. The Basic Course includes the Military Science or Air Science subjects required in the first two years. Upon initial enrollment, the student is provided the opportunity to indicate the unit in which he desires to take his training. Within quota limitations imposed by higher headquarters, every effort is made to assign each individual to the unit of his choice. Those who do not make a choice of a unit will be arbitrarily assigned to a unit.

This two-year course carries two hours credit per semester or eight hours for the full four semesters.

Two bours. 1, 11 MILITARY SCIENCE. 1-2. (Army) Military organization; hygiene and first aid; leadership, drill, and exercise of command; maps and aerial photographs; evolution of warfare; marksmanship; military problems of U.S. Two bours. I.II MILITARY SCIENCE, 11-12. (Army) Leadership, drill, and exercise of command; introduction to infantry tactics: individual weapons and marksmanship. Two bours. 1, 11 AIR SCIENCE 1-2. (Air Force) Instruction in world political geography, and its relation to air planning, air transportation and communications; leadership, drill and exercise of command. AIR SCIENCE 11-12. (Air Force) Two bours. I.II Instruction in aerodynamics and propulsion; introduction into weather, navigation, and applied air power; leadership drill and exercise

of command.

THE ADVANCED COURSE

This is a two-year course elective to juniors, and carries three hours credit per semester or twelve hours for the full four semesters. Members of this course are selected by the Professor of Military or Air Science and Tactics and the President of the University. Ex-service personnel may apply in spring of their sophomore year, with the approval of the Dean of the College concerned. Their selection is dependent upon the approval of the officers named above.

Students enrolled in this course will receive a uniform allowance of \$100.00 for the course, and a daily subsistence allowance not to exceed the value of the garrison ration for the period that classes are scheduled. This subsistence allowance is paid monthly and is established each fiscal year. During recent years it has averaged \$27.00 per month. The class meets at least five periods per week with a minimum of one hundred hours per academic year.

Attendance at a summer camp of six weeks duration is mandatory. During such attendance the student is paid at the pay scale of an enlisted man of the Army or Air Force in the seventh grade. Mileage at five cents per mile is paid to and from camp. Students will attend camp between the junior and senior academic years, but deferment may be made, for cogent reason, when approved by the Professor of Air Science and Tactics and the Commanding General, First Army or First Air Force.

On successful completion of the course, Army ROTC students normally are commissioned as Second Lieutenants, Infantry Branch, Officers Reserve Corps. Advanced Army ROTC students who pursue appropriate academic courses may qualify for a commission in a technical service. Army ROTC students interested in this provision should consult the Professor of Military Science and Tactics.

Advanced Air Force ROTC students are commissioned as Second Lieutenants, USAF Reserve with communications, administrative, supply, or operations military occupational specialities.

Outstanding military students are eligible for direct commission in the Regular Army and Air Force upon graduation.

MILITARY SCIENCE 101-102. (Army) Three hours. I, II Leadership, drill, and exercise of command, tactics and techniques of infantry, rifle platoon and company; weapons; gunnery; communications.

MILITARY SCIENCE 111-112. (Army) Three hours. I, II Command and staff; military teaching methods; psychological warfare; military problems of the United States; leadership, drill, and exercise of command; tactics and technique of infantry, combat intelligence; military law and boards; military supply and evaluation.

AIR SCIENCE 101-102 (Air Force) ADMINISTRATION AND LOGISTICS SPECIALIZED TRAINING

Logistics, air operations; individual records, base administration, nonappropriated funds; special administrative responsibilities; transportation; air force supply; command, leadership and drill.

AIR SCIENCE 103-104 (Air Force) COMMUNICATIONS SPECIALIZED TRAINING

Logistics, air operations; wire communications; radio communications; radar, visual, and aural communications; communications maintenance and supply; communications inspection; communications centers and message handling; communications organization; command, leadership and drill.

AIR SCIENCE 105-106 (Air Force) FLIGHT OPERATIONS SPECIALIZED TRAINING

Military publications; elementary supply procedure; air operations; major commands of the United States Air Force; principles of flight; aircraft maintenance engineering; aircraft instruments; air navigation; meteorology; command, leadership and drill.

AIR SCIENCE 111-112 (Air Force) ADMINISTRATION AND LOGISTICS SPECIALIZED TRAINING

Military administration; office of the Inspector General USAF; military teaching methods; military law and boards; Air Force personnel

management; career development; staff organization; administrative staff functions; supply staff functions; leadership, drill and exercise of of command.

AIR SCIENCE 113-114 (Air Force) COMMUNICATIONS SPECIALIZED TRAINING

This phase of the communications training is a continuation of the junior year training covering in greater detail the organizational plan of communications units and the administrative problems of communications officers. Considerable time is spent in assembling and operating all types of Air Force communications equipment, and the working of practical communications problems with other stations in a communications network. Leadership, drill and exercise of command.

AIR SCIENCE 114-115 (Air Force) FLIGHT OPERATIONS SPECIALIZED TRAINING

Entire scope of this course is unannounced at this time, however this phase of the flight operations courses is designed to offer advanced instruction in the latest electronic navigational and bombing devices to include the theory of radar as applied to both. Future trends in the development of military aircraft and weapons. Leadership, drill and exercise of command.

Graduate Study

ORGANIZATION

The Graduate Council and the Director of Graduate Study supervise graduate instruction. Graduate study leading to the Master's degree is offered in the following departments of the College of Agriculture: Agricultural Biochemistry, Agricultural Economics, Agronomy, Animal and Dairy Husbandry, Animal Pathology, Botany, and Home Economics. In the College of Arts and Sciences, the Departments of Classical Languages, English, German, History, Music, Physics, Political Science, Psychology, Romance Languages, and Zoology offer graduate study, as do the Department of Education of the College of Education and Nursing, the Departments of Chemistry, Commerce and Economics, and Mathematics of the College of Technology, the Departments of Anatomy, Bacteriology, Biochemistry, Experimental Medicine, Pathology, Pharmacology and Physiology of the College of Medicine.

ADVANCED DEGREES

The degrees of Master of Arts, Master of Science, Master of Education and Master of Arts in Teaching may be earned by qualified students in regular or summer sessions of the University. Professional degrees in engineering—Civil Engineer, Mechanical Engineer, Electrical Engineer —awarded only to graduates of this University, require evidence of high professional achievement for at least four years, supplemented by an approved thesis.

REGULATIONS

ADMISSION TO GRADUATE STUDY

Applicants for admission must hold a Bachelor's degree from an approved college or university.

New students should apply for admission to the Director of Graduate Study, submitting transcripts of their undergraduate records and, if possible, reports of attainment in the Graduate Record Examination. The latter forms a valuable supplemental means of judging an applicant's preparation for graduate study. The Examination may be taken in any region of the United States. Inquiries may be addressed to the Director of Student Personnel at the University or directly to Educational Testing Service, Princeton, N. J. Because of the individual nature of most graduate study, the number of candidates selected to specialize in any one department must be limited. Only applicants who desire to work along lines in which the University offers advantages will be accepted.

Candidates must register with the Director at the beginning of each University session spent in residence. The program of graduate work proposed by each student must be approved by the departments in which the work is to be done, by the Director of Graduate Study and, in the case of work pursued in summer session, by the Director of the Summer Session.

RESIDENCE

Each candidate for a Master's degree must study in residence at the University of Vermont at least two semesters, or five summer sessions, except that a thesis written under the supervision of a faculty member may be accepted in lieu of one summer of residence. Transfer of credit for courses taken in residence in other institutions can not reduce the residence requirement below the minima specified.

Individual departments may require a longer period of residence than the minima stated above; e.g., the departments of Biochemistry, Chemistry, and Physics normally require a minimum of two years. Inadequate preparation in the field in which the student elects to specialize may necessitate the taking of undergraduate courses and the consequent prolongation of the period of residence. Holders of fellowships or assistantships requiring that a substantial portion of time be devoted to teaching or other duties must expect that at least two academic years will be necessary to complete requirements for the degree.

TIME LIMIT

Study for the Master's degree must be completed (1) within a span of three years if pursued during the regular academic year (in special cases credits earned outside this limit may be re-evaluated, and accepted or rejected, by the Executive Committee of the Graduate Council), (2) within a span of seven years if pursued during summer sessions. For students who began graduate study prior to World War II and who subsequently served in the armed forces the time limit may be extended by the length of time of such service in the armed forces. This time limit applies to study at the University of Vermont and to courses taken in other institutions and presented for transfer of credit.

TRANSFER OF CREDIT

Not more than eight semester hours of credit (or the equivalent thereof) for graduate courses taken in other institutions can be transferred for credit toward the Master's degree. Such courses must have been taken in an accredited college or university offering graduate study and must be acceptable toward graduate degrees in that institution. Credit cannot be transferred for (1) courses which would not, if taken at the University of Vermont, receive graduate credit, (2) courses in which a grade lower than 82 percent (B—) was received, (3) extension courses given by institutions other than those offered by the University of Vermont and State Agricultural College, (4) correspondence courses.

EXTENSION COURSES

Not more than eight semester hours of credit toward the Master's degree may be earned by taking extension or adult education courses offered by the University of Vermont. Such courses must meet specifications established by the Graduate Council; information as to these specifications may be obtained from the Director of Graduate Study.

APPROVAL OF CANDIDACY FOR DEGREES

The student is considered a candidate for a degree only after the department in which he elects to specialize and the Director of Graduate Study have ascertained that he is qualified to pursue graduate study leading to that degree.

FEES

For information concerning fees, see Index.

GRADES

Each student must maintain an average of 85 (B). A course in which a grade lower than 82 (B—) is received will not be accepted toward an advanced degree. Certain departments require a higher average grade than the 85 specified above, and students are apprised of this before their first enrollment in those departments.

UNIVERSITY TEACHING FELLOWSHIPS

The University offers a number of teaching fellowships with stipends varying from \$400 to \$800, with exemption from tuition charges. These fellowships are provided to encourage students whose undergraduate records and personal qualities give promise of success in research or in the profession of teaching.

The recipient of a fellowship is required to work for the Master's degree and to assist in the work of the department in which he holds the fellowship. Such duties will vary with the size of the stipend, a maximum of half-time service being expected of recipients of the larger amounts.

Applications for fellowships should be addressed to the Director of Graduate Study and should be filed not later than March 15 of the academic year preceding that for which the application is made.

Graduate Study

GRADUATE ASSISTANTSHIPS

Assistantships are available in several departments, enabling students to devote half time to graduate study and half time to the work of the department. Information concerning these may be obtained directly from the chairmen of the departments.

THE GEORGE H. WALKER DAIRY FELLOWSHIP

This fellowship provides a stipend of not less than \$700, with exemption from the tuition fee. It is available to graduate students who during their undergraduate course have studied "agriculture, chemistry, and bacteriology" and who desire to study the problems relating to the production of a sanitary milk supply on comparatively small plants and farms. The endowment of ten thousand dollars is sufficient to provide a fellowship every third year.

SCHOLARSHIP AID

Graduate students may receive scholarship aid on the same basis as undergraduate students. Details are given under "Student Aid," for which see Index.

REQUIREMENTS FOR DEGREES

AMOUNT OF WORK REQUIRED

A total of thirty semester hour credits is required for the Master's degree. Credit for the preparation of a thesis under the direction of the particular department, when required, is to be considered as part of the program.

MASTER OF ARTS AND MASTER OF SCIENCE

FIELD OF SPECIALIZATION. In judging the attainments of candidates, the Graduate Council places greatest emphasis upon ability to do original research in the chosen field of specialization. Hence, the number of undergraduate and graduate courses required will vary with the preparation and needs of the individual student. Each department will require of its students such courses and assigned readings as may be deemed necessary to their graduate education.

Each student will undertake a problem of original research under the direction of a member of the department in which he is specializing. At the conclusion of the investigation the student must present a thesis embodying the results obtained and demonstrating his capacity for independent research. One copy of the thesis must be bound for deposit in the University library; some departments require that a second copy be bound for deposit with the department.

Certain departments have established requirements in addition to those stated here; students seeking to specialize in these departments will be furnished information concerning such requirements.

FIELD OF RELATED STUDY. Normally the graduate program will include advanced courses taken in at least two departments. In some cases, however, it may seem wise to permit a student to confine his work to one department. This may be done, providing the program of the student includes graduate courses or supervised study with at least three faculty members qualified to offer graduate instruction.

MASTER OF EDUCATION

The degree Master of Education is offered to students who wish to specialized in Education and whose undergraduate records indicate capacity for graduate study.

The Department of Education will plan for each student a systematic course of study, supervised by the head of the Department and subject to the approval of the Director of Graduate Study. At least thirty semester hours of approved graduate work must be taken and passed with distinction. Not less than six of the thirty semester hours must be devoted to a field of related study in departments other than the Department of Education. The course entitled, "The Intellectual Background of Modern Life" is recommended for all candidates for this degree.

The Department of Education will assign each candidate a course of readings, examination on which will form part of the written examination in the field of specialization.

If a student's preparation in Psychology or Education is insufficient, additional undergraduate courses in these fields may be required.

A thesis may be accepted in lieu of six semester hours of graduate courses. The thesis must be developed under the direction of the Department of Education and must be approved by the Director of Graduate Study.

MASTER OF ARTS IN TEACHING

A student working for this degree may specialize in a single department offering courses for graduate credit or in any acceptable combination of such departments. Typical inter-departmenal fields of specialization are: English and Speech; Natural Sciences; Physical Sciences; Modern Languages, or Social Sciences. Students who enroll for this degree should have completed an undergraduate major in the field of specialization and be acceptable to the Department or Departments concerned.

A minimum of thirty semester hours of graduate work is required, of which not less than six semester hours shall be in Education. In his undergraduate and graduate work, a student must complete eighteen semester hours in Education. The following courses or their equivalent must be included in the program: Educational Psychology or Principles of Education, History of Education, Secondary Education, General Methods or Procedures, and Student Teaching.

The examination requirements are the same as for the other Masters' degrees, with the oral examination testing the competency of the candidate as a teacher in the field of specialization.

PROFESSIONAL DEGREES

The advanced degrees of Civil Engineer, Mechanical Engineer, and Electrical Engineer may be conferred upon graduates in the Engineering curricula of the University of Vermont. At least four years must have elapsed since the candidate's graduation. For at least three years the candidate must have held positions of responsibility in his profession and have shown ability to design and execute important engineering work.

At least six months before the end of the year in which the degree is sought the candidate must present to the Director of Graduate Study a statement of his technical training and experience, together with the topic upon which he proposes to submit a thesis. The thesis must embody the results of original investigation upon some technical subject. The professional record and thesis topic must be approved by the College of Technology and by the Executive Committee of the Graduate Council.

The thesis must be presented to the Director of Graduate Study not later than three weeks prior to commencement. The thesis must be approved by the College of Technology and by the Executive Commmittee of the Graduate Council.

MASTERS' EXAMINATIONS

The examinations culminating the program of graduate study are as follows: (1) a written examination (two-hour minimum) in the field of specialization; (2) a written examination (two-hour minimum) in the field of related study; (3) an oral examination on the thesis, or, for candidates for the Master of Education degree and the Master of Arts in Teaching degree, in the field of Education or subject matter field in which the candidate wishes to demonstrate special competence. Success in the written examinations is prerequisite to the taking of the oral examination. The written examinations must precede the oral examination by at least two weeks. It is recommended that the interval be longer, and that students working for the degree in summer sessions plan their work so that the written examinations can be taken during the summer prior to that in which the oral examination is to be taken.

The University Extension

The aim of the University Extension work is to broaden the horizon of those who have not attended college and afford an opportunity for those who have attended college to keep in touch with academic thought along their favorite lines, or to gain some information about subjects which they have not studied in college.

The Extension work of the University includes the following: the Agricultural Extension Service (see Index), the Summer Session, Adult Education, Conferences, the Robert Hull Fleming Museum, and the Government Clearing House.

THE SUMMER SESSION

A Summer Session is conducted for a period of six weeks. Courses are offered on both the graduate and undergraduate level and are diversified in scope to meet the needs of various groups of students. Enrollment includes:

- 1. Persons with adequate preparation who desire to take courses leading to a Bachelor's degree.
- 2. Persons who have completed a four-year college course and who wish to take advanced work for credit toward the Master's degree.
- 3. Principals and superintendents of schools who desire to take fundamental or specialized courses in the fields of education administration and supervision.
- 4. Teachers in elementary or secondary schools who desire to earn credit toward State teachers' certificates of higher grade or who desire to broaden their knowledge of special subjects.
- 5. Persons who desire courses at the college level for self-improvement.

Subjects offered include art, botany, chemistry, commercial subjects, conservation, dramatic art, economics, education, English, French, geography, German, history, home economics, Latin, mathematics, music (instrumental and vocal), nursing, philosophy, physical education, physics, political science, psychology, Spanish, speech and zoology.

There is an enrollment fee of \$5.00 and a tuition charge of \$12.50 per semester hour.

A special bulletin giving a full description of courses will be sent upon application to the Director of the Summer Session.

ADULT EDUCATION

The University maintains an Adult Education program including both campus evening classes and courses by certain faculty members offered in Vermont communities where sufficient enrollment can be secured.

Under Plan I, lectures and/or discussions are provided in series of variable length on a non-academic basis at cost, with fees pro rata. A variety of subjects are available for groups wishing to enroll for enjoyment, cultural enrichment, or vocational advancement. No academic credit or teacher certification credit is available under Plan I.

Plan II provides for courses carrying academic credit. Under this plan Adult Education classes usually meet in two-hour session once a week for fifteen weeks. Tuition is charged at the rate of thirty dollars for the two semester hours if taken for credit, or twenty dollars if credit is not desired. A course may be given for three semester hours credit with a proportionate increase of class session time and tuition.

A limited number of Adult Education credits may be accepted toward a degree, or toward additional teacher certification by the State Department of Education. Any person desiring to take an Adult Education course for credit toward a degree should secure the approval of the appropriate dean, or the Director of Graduate Study, if graduate credit is desired.

The following courses have been given recently in this program:

Arts and Crafts C.P.A. Problems	Personality Development and Mental Hygiene
Comparative Nursing	Principles and Practices of Guidance
Current Economics Problems	Services
Drawing and Painting	Principles of Marketing
Educational Measurements and Statistics	Public Speaking
Electrical Engineering	Retail Accounting
Insurance	Retail Merchandising
Intellectual Backgrounds of Modern Life	Salesmanship
Journalism	Short Story and Article Writing
Music Appreciation	Training of the Speaking Voice
Occupational and Education Informa-	Vermont History and Folklore
tion	Vocational and Educational Testing

Requests for further information or for the scheduling of a course under either Plan I or Plan II should be addressed to the Director of Adult Education, Waterman Building.

THE GOVERNMENT CLEARING HOUSE

The Government Clearing House endeavors to promote a practical approach to the study of government by students in the University and also to provide information relative to problems of government, upon

The University Extension

request, primarily to town and city officials in the state, but also to officials of other government units and to private citizens.

The Clearing House cooperates with such organizations as the Vermont State Chamber of Commerce and the New England Council in sponsoring such activities as the annual "Town Report Contest." Through the Clearing House, the University cooperates with the Governor, other state officers, including those in the Vermont Development Commission, and the Vermont State Chamber of Commerce in sponsoring the annual Town Officers' Educational Conferences.

A Public Affairs Library is maintained as a memorial to the late James P. Taylor whose efforts to expand citizen interest in good government are well known throughout the State of Vermont.

THE ROBERT HULL FLEMING MUSEUM

Students, faculty, and staff members take advantage of the many facilities offered by the museum.

Organizations have the use of any of the several rooms which are available for busines meetings or social functions and for lectures or class meetings. There are two libraries—The Wilbur Room, containing a collection of Vermont books; and the Art Library, including a Carnegie collection of several thousand photographs of paintings, sculpture, and architecture used in the study of art.

Permanent and changing exhibits include the Cannon Collection of Oriental objects, extensive geological and zoological collections, the Fleming Oriental Exhibit, and three galleries of art. The Vermont Film Library, which has about 150 school members, makes many films available to students and teachers.

In co-sponsorship with AAUW the museum holds children's classes in many of the allied arts. Educational and entertaining programs are also held for children on Saturday mornings.

The Fleming Museum Association offers to its members a rich program of concerts, motion pictures (including several foreign-language films), previews of art exhibits, and teas.

CONFERENCES

During the course of the year, many conferences are held on the campus. Every week one or more groups closely associated with some phase of the University's activities meet to discuss problems and to exchange ideas. Groups interested in arranging such conferences should write to the Director of Public Relations for details. It has become the policy of the University to hold annually in March an educational conference with the schools of the State. The project is a part of the University's contribution to the effort which is being made by the various educational forces of the State to improve our institutions of all grades, from the primary school to the college and the University. In selecting a topic for the conference an effort is made to look to the future and anticipate the problems which Vermont must consider. The aim is to bring to the teachers of the State, year by year, expert reports and opinions relating to some of our many serious educational problems. This conference is held in connection with the convention of the Champlain Valley Teachers' Association.

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MRS. SAMUEL FOSTER	MRS. SARA VAN BLARCOM
Redstone	Gamma Phi Beta House
MRS. JANE FRANCE	MRS. FLORENCE WELD
Alpha Chi Omega House	Lyman Hall
MRS. R. G. GOSS Warner House	

Officers and Assistants in Administration, Retired

MARY RUSSELL BATES, Ph.B.Associate LibrarianMARY OLIVE BOYNTON, Ph.B.Librarian, Medical LibraryJOSEPH LAWRENCE HILLS, Sc.D.Dean, College of AgricultureELWIN LEROY INGALLS, A.B.State 4-H Club LeaderHELEN BARNES SHATTUCK, A.B.Librarian; Billings LibraryELIJAH SWIFT, Ph.D.Dean, College of Arts and SciencesFORREST WILKINS KEHOE, B.S.Loon Loon Loon Loop

Superintendent of Buildings and Grounds and Associate Registrar

Emeriti

JOSEPH LAWRENCE HILLS, Sc.D. BERTHA MAY TERRILL, A.M., Sc.D. FRED KINNEY JACKSON, M.D. DAVID MARVIN, M.D. CHARLES FLAGG WHITNEY, M.D. Professor Emeritus of Agronomy Professor Emeritus of Home Economics Professor Emeritus of Physiology Professor Emeritus of Pharmacology

Professor Emeritus of Physiological Chemistry and Toxicology

Head Residents, Retired Personnel, Emeriti 201

CHARLES FRANCIS DALTON, M.D. CHARLES KIMBALL JOHNSON, M.D. CHARLES PERKINS MOAT, B.S. MARSHALL BAXTER CUMMINGS, Ph.D. ELBRIDGE CHURCHILL JACOBS, S.B., A.M.

GEORGE PLUMER BURNS, Ph.D. THOMAS STEPHEN BROWN, M.D. *GEORGE GORHAM GROAT, Ph.D. ARTHUR DEXTER BUTTERFIELD, D. ENG.

LYMAN ALLEN, M.D. GEORGE MILLAR SABIN, M.D. ARTHUR BECKWITH MYRICK, Ph.D.

HENRY FARNHAM PERKINS, Ph.D. §WELLINGTON ESTEY AIKEN, A.M. ELIZABETH VANDERPOOL COLBURN, M.A.

AMOS BUSH WILLMARTH, A.M., M.S. ASA RUSSELL GIFFORD, A.M.

CLARENCE HENRY BEECHER, M.D. ERNEST HIRAM BUTTLES, M.D. EMMUS GEORGE TWITCHELL, M.D.

SARA MOULTHROP HOLBROOK, A.M. †EDWARD JAMES ROGERS, M.D. As: BENJAMIN DYER ADAMS, M.D. MYRON ELLIS WITHAM, C.E. MRS. ELIZABETH BRADISH ROY ORVILLE BUCHANAN, B.S.

Professor Emeritus of Public Health **Professor Emeritus of Pediatrics** Assistant Professor Emeritus of Public Health Professor Emeritus of Horticulture Professor Emeritus of Geology and Mineralogy Professor Emeritus of Botany Professor Emeritus of Anatomy Professor Emeritus of Economics Professor Emeritus of Mathematics and Geodesy Professor Emeritus of Surgery Professor Emeritus of Clinical Surgery Professor Emeritus of Romance Languages and Literatures Professor Emeritus of Zoology Professor Emeritus of English

Assistant Professor Emeritus of Education S. Assistant Professor Emeritus of Chemistry Professor Emeritus of Intellectual and Moral Philosophy Professor Emeritus of Medicine Professor Emeritus of Pathology Professor Emeritus of Ophthalmology, Otolaryngology, and Rhinology M. Assistant Professor Emeritus of Education Assistant Professor Emeritus of Surgery Assistant Professor Emeritus of Mathematics Instructor Emeritus in Music

Associate Professor Emeritus of Electrical Engineering #BENJAMIN FRANKLIN LADD, A.M. Assistant Professor Emeritus of German ELIJAH SWIFT, Ph.D. Professor Emeritus of Mathematics HOWARD BOWMAN ELLENBERGER, Ph.D. Professor Emeritus of Animal and Dairy Husbandry

ELEANOR STENSON CUMMINGS, A.B. Associate Professor Emeritus of Physical Education for Women

* Deceased September 10, 1951. § Deceased February 16, 1952.

† Deceased October 22, 1951.

Deceased August 28, 1951.

Personnel

The Faculty

Dates after names represent the year of original appointment.

Professor of Anesthesia JOHN ABAJIAN, JR., M.D. (1940-42; 1945) Instructor in English JOHN EDWARD AKEY, M.A. (1950) NELLE ALEXANDER ADAMS (Mrs. W. R.), A.M. (1926) Assistant Professor of Education THURSTON MADISON ADAMS, Ph.D. (1943) Professor of Agricultural Economics Professor of Forestry WILLIAM RITCHIE ADAMS, Ph.D. (1926) ROBERT BASCOM AIKEN, M.D. (1941) Associate Professor of Preventive Medicine Assistant Professor of English **JOHN WATSON ALDRIDGE, A.B. (1948)** SINCLAIR TOUSEY ALLEN, JR., M.D. (1948) Assistant Professor of Medicine Professor of Medicine ELLSWORTH LYMAN AMIDON, M.D. (1933) Instructor in Medicine RICHARD WALKER AMIDON, M.D. (1949) Associate Professor of Psychology HEINZ LUDWIG ANSBACHER, Ph.D. (1946) GARDNER PIERCE ASHLEY, M.A. (1951) Instructor in Romance Languages ROBERT SHILLING BABCOCK, Ph.D. (1946) Assistant Professor of Political Science FLORENCE EMILY BAILEY, M.S. (1923) Associate Professor of Home Economics Assistant Professor of English BETTY BANDEL, Ph.D. (1947) Instructor in X-Ray Technique RALPH JOHN BANNISTER (1950) Instructor in Pathology WADI ANTONIO BARDAWIL, M.D. (1951) Instructor in Otolaryngology BERNARD BENJAMIN BARNEY, M.D. (1951) JOHN J. BEAULIEU, B.S., Captain, U. S. Army (1951) Assistant Professor of Military Science and Tactics Associate Professor of Orthopedic Surgery JOHN FRYE BELL, M.D. (1947) (On leave, 1951-52) HOWARD GORDON BENNETT, A.M. (1925) Professor of Music Professor of Home Economics HELEN ELIZABETH BERESFORD, M.A. (1947) Instructor in Medicine IOHN HARDESTY BLAND, M.D. (1949) CHARLES HUGO BLASBERG, M.S. (1944) Associate Professor of Horticulture SAMUEL NATHANIEL BOGORAD, Ph.D. (1946) Assistant Professor of English WESSON DUDLEY BOLTON, D.V.M. (1950) Associate Professor of Animal Pathology CHARLES FARRINGTON BOND, M.A. (1950) Assistant Professor of Zoology DAVID MARSH BOSWORTH, M.D. (1922-25; 1942) Consultant in Orthopedic Surgery Associate Professor of Dairy Manufacturing ALEC BRADFIELD, M.S. (1945) Pomeroy Professor of Chemistry CHARLES ERNEST BRAUN, Ph.D. (1928) LELAND LAWRENCE BRIGGS, M.B.A. (1927) Professor of Economics CONSTANCE LORRAINE BROWN, M.S. (1928) Assistant Professor of Chemistry

The Faculty

GLENN HALSTEAD BROWN, M.S. (1950) Assistant Professor of Chemistry Lecturer in Home Economics HELEN IONE BROWN, M.A. (1950) MARION HUNTINGTON BROWN, M.S. (1942) Assistant Professor of Home Economics WILLIAM EUSTIS BROWN, Ph.B., M.P.H., M.D. Professor of Preventive Medicine JAMES ATKINS BULLARD, Ph.D. (1928) Williams Professor of Mechanics and Mathematics WILLIAM KENNETH BUNNEY, B.S., Major, U. S. Army (1951) Assistant Professor of Military Science and Tactics Instructor in Pathology ROY VEDDER BUTTLES, M.D. (1950) CHARLES LYMAN CALAHAN, M.S. (1948) Instructor in Horticulture THOMAS WRIGHT MOIR CAMERON, Ph.D., D.Sc. (1942) Visiting Professor of Tropical Medicine FRED DONALD CARPENTER, Ph.D. (1918) Professor of the German Language and Literature HOWARD JULIAN CARPENTER, B.S. (1947) Assistant Professor of Mechanical Engineering DANIEL BERNARD CARROLL, Ph.D. (1924) McCullough Professor of Political Science HENRY HASLEHURST CARSE, M.B.A. (1947-49; 1950) Assistant Professor of Economics ROBERT MCCRILLIS CARTER, JR., Ph.D. (1944) Professor of Agricultural Economics WILLIAM MICHAEL CASHIN, Ph.D. (1951) Assistant Professor of Chemistry ALFRED HAYES CHAMBERS, Ph.D. (1948) Associate Professor of Physiology JAMES PATRICK CHAPLIN, Ph.D. (1947) Associate Professor of Psychology ARTHUR HARRY CHENEY, B.S. (1952) Instructor in Mathematics (2nd Sem.) RUPERT ADDISON CHITTICK, M.D. (1944) Professor of Psychiatry PAUL DENNISON CLARK, M.D. (1930) Associate Professor of Pediatrics DOROTHY MAY CLEVELAND, Ed.M. (1951) Instructor in Physical Education for Women JULIUS GEORGE COHEN, M.D. (1950) Instructor in Psychiatry Associate Professor of Art FRANCIS PEABODY COLBURN, Ph.B. (1942) HELEN LEAH COLEMAN, M.A. (1951) Assistant Professor of Physical Education for Women RICHARD KISTLER CONKLIN, D.D.S. (1950) Instructor in Dental Hygiene Instructor in History ROGER GREENWOOD COOLEY, M.A. (1949) DOROTHY BLACK CORBIN, M.D. (1940-42; 1950) Instructor in Pediatrics and Home Economics Associate Professor of Pediatrics STUART STARNES CORBIN, M.D. (1940) Associate Professor of Pediatrics ROY EDWARD CORLEY, M.D. (1937) Professor of Nursing FAYE CRABBE, A.M. (1943) ALBERT JAMES CRANDALL, M.D. (1939) Instructor in Clinical Surgery

Personnel

WEYMAN STOCKTON CROCKER, B.E. (1951) Instructor in Physics Associate Professor of Chemistry GEORGE CHAPMAN CROOKS, Ph.D. (1930) (On leave, 1951-52) JOHN CHARLES CUNNINGHAM, M.D. (1946) Shipman Professor of Ophthalmology MALCOLM DANIEL DAGGETT, Ph.D. (1945) Professor of Romance Languages Associate Professor of Dermatology JOHN FIDLAR DALY, M.D. (1949) PAULA VAN GULDEN DAME (MRS. W. M.), B.A. (1951) Instructor in Speech LEON W. DEAN, A.B. (1923) Assistant Professor of English JOHN BELLOWS DEFOREST, Ph.D. (1921) Professor of Romance Languages WILLIAM STEPHEN DEMPSEY, M.D. (1951) Clinical Instructor in Surgery GINO ALDO DENTE, M.D. (1950) Instructor in Anesthesiology DOLORES DIRUBBO, A.M. (1948) Instructor in Romance Languages CAROLINE VISSCHER DOANE (MRS. R. F.), M.A. (1951) Instructor in Romance Languages ROLAND FREEMAN DOANE, D.U. (1925) Associate Professor of Romance Languages ELEAZER JOHNSON DOLE, Ph.D. (1921) Associate Professor of Botany CHARLES GEORGE DOLL, Ph.D. (1927) Associate Professor of Geology and Mineralogy RAYMOND MADIFORD PEARDON DONAGHY, M.D. (1946) Associate Professor of Neurosurgery JAMES ANTHONY DONAHUE, JR., M.C.S. (1949) Assistant Professor of Economics ROBERT KINGSLAND DOTEN, Ph.D. (1951) Assistant Professor of Geology BENNETT COOPER DOUGLASS, Ph.D. (1921) Professor of Education NICHOLAS BERNARD DREYER, M.R.C.S., L.R.C.P. (1945) Professor of Pharmacology HOWARD DUCHACEK, M.S.A.E. (1949) Assistant Professor of Mechanical Engineering GENEVIEVE ELEANOR DUGAN, M.A. (1951) Instructor in Psychology FRED WILLIAMS DUNIHUE, Ph.D. (1936) Professor of Histology and Enbryology WINFIELD BOOTH DURRELL, D.V.M. (1949) Assistant Professor of Animal Pathology GEORGE DYKHUIZEN, Ph.D. (1926) Professor of Philosophy EUGENE KENNETH EAKIN, Ph.D. (1950) Associate Professor of Education OLIVER NEWELL EASTMAN, M.D. (1911) Professor of Gynecology OLIVER ROLFE EASTMAN, M.D. (1948) Assistant Professor of Obstetrics and Gynecology ROBERT WEBSTER EASTMAN, LL.B. (1952) Instructor in Political Science (2nd Sem.) DONALD M. ELDRED, M.A. (1949) Instructor in Clinical Psychology GEORGE MACINTOSH ENGLAND, M.S. (1951) Instructor in Agricultural Economics KENNETH HARMON ERDODY, M.S. (1951) Instructor in Mathematics

The Faculty

Instructor in Urology LOUIS WILLIAM ESPOSITO, M.D. (1944) Instructor in Clinical Pediatrics JOHN SEELEY ESTABROOK, M.D. (1940) JEANNE MARGARET EULER, M. Ed. (1943) Assistant Professor of Physical Education for Women JOHN CLIFFORD EVANS, B.S. (1937) Assistant Professor of Physical Education for Men Professor of History PAUL DEMUND EVANS, Ph.D. (1930) CLIFTON DOW FARRAND, B.S. (1949) Instructor in Economics LEWIS SAMUEL FEUER, Ph.D. (1951) Assistant Professor of Philosophy WILLIAM THOMPSON FISHBACK, A.M. (1950) Assistant Professor of Mathematics ROBERT FITZSIMMONS, M.S. (1949) Instructor in Animal and Dairy Husbandry WINTHROP MAILLOT FLAGG, M.D. (1935) Professor of Urology ARTHUR HOWARD FLOWER, JR., M.D. (1950) Instructor in Dermatology JOHN LOUIS PHILIPPE FOREST, M.D. (1942) Instructor in Clinical Psychiatry ERALD FAIRBANKS FOSTER, M.D. (1931) Instructor in Public Health Instructor in Nursing GRACE ROWAN FOX, B.S. (1948) PERCY AUSTIN FRALEIGH, Ph.D. (1927) Flint Professor of Mathematics ALDO GINO FRANCESCHI, M.D. (1946) Instructor in Urology ROBERT JAMES FREDERICK, Lieutenant, U. S. Air Force (1951) Assistant Professor of Air Science and Tactics Professor of Clinical Medicine PAUL KENDRICK FRENCH, M.D. (1924) FRED WILLIAM GALLAGHER, Ph.D. (1944) Professor of Bacteriology WILLIAM LAWRENCE GARDNER, B.S. (1929) Associate Professor of Physical Education for Men Professor of Botany ALEXANDER GERSHOY, Ph.D. (1923) Associate Professor of Clinical Surgery ARTHUR GLADSTONE, M.D. (1936) RUTH LORETTA GODFREY, M.S. (1945) Associate Professor of Home Economics GERALD WOODROW GRAY, Major, U. S. Army; Ph.B. (1950) Assistant Professor of Military Science and Tactics Associate Professor of Chemistry DONALD CROWTHER GREGG, Ph.D. (1946) Assistant Professor of Economics EDWIN CHARLES GREIF, M.S. (1950) Instructor in Romance Languages LYNN LESLIE GROW, Ph.B. (1947) CARLETON RAYMOND HAINES, M.D. (1950). Instructor in Surgery Assistant Professor of Religion RAYMOND AVERY HALL, A.M. (1923) Instructor in Speech (2nd Sem.) RICHARD DAVIS HARPER, Ph.D. (1952) Associate Professor of Medicine THEODORE HENRY HARWOOD, M.D. (1938) ROLF NORDAHL BRUN HAUGEN, M.A. (1947) Assistant Professor of Political Science (On leave, 1951-52) Instructor in Dental Hygiene EARL MURDOCK HEAD, D.M.D. (1950) MARY CATHERINE HEININGER (MRS. P. L.), R.N. (1951) Instructor in Dental Hygiene

Personnel

PAUL LEHMANN HEININGER, D.D.S. (1949) Instructor in Dental Hygiene DONALD CEDRIC HENDERSON, M.S. (1944) Associate Professor of Poultry Husbandry KENNETH DOUGLAS HILL, Major, U. S. Air Force (1951) Assistant Professor of Air Science and Tactics CHARLES FENNO HOFFMAN, JR., A.M. (1950) Instructor in English CHARLES WILLIAM HOILMAN, M.S. (1949) Associate Professor in Electrical Engineering RALPH MAYNARD HOLMES, Ph.D. (1925) Professor of Physics FREDERICK SHERMAN HOPKINS, JR., M.F. (1950) Assistant Professor of Forestry RICHARD JOHN, HOPP, M.S. (1947) Assistant Professor of Horticulture ROBERT BRUCE HUBER, Ph.D. (1946) Professor of Speech JOHN CHARLES HUDEN, Ph.D. (1950) Professor of Education MURIEL JOY HUGHES, Ph.D. (1942-44; 1945) Associate Professor of English EDWARD PUTNAM HUME, M.S. (1949) Assistant Professor of Horticulture RONALD HUGH HUMPHREY, M.A. (1946) Instructor in Dramatics JEAN ELOISE ICHTER, B.S. (1948) Instructor in Nursing EARL HAROLD JACOBSEN, A.B., Colonel, U. S. Air Force (1951) Professor of Air Science and Tactics ELBRIDGE EUGENE JOHNSTON, M.D. (1951) Assistant Professor of Medicine STUART LYNDE JOHNSTON, Ph.D. (1940-44; 1946) Associate Professor of Romance Languages DONALD BOYES JOHNSTONE, Ph.D. (1948) Assistant Professor of Microbiology BENJAMIN ANGUS JONES, M.S. (1950) Assistant Professor of Agricultural Engineering LEONIDAS MONROE JONES, M.A. (1951) Instructor in English HOVEY JORDAN, M.S., A.M. (1913) Professor of Histology and Embryology HARRY HELMUTH KAHN, M.A. (1948) Instructor in German LEONARD S. KAPLOW, B.S. (1951) Laboratory Instructor in Clinical Pathology JAY EDGAR KELLER, M.D. (1950) Instructor in Clinical Surgery Assistant Professor of Agronomy JOSEPH BURNHAM KELLY, M.S. (1946) (On leave, 1951-52) MORRIS WELLESLEY KENFIELD, B.S. (1946) Instructor in Mechanical Engineering (On leave, 1951-52) JOHN HARVEY KENT, Ph.D. (1950) Roberts Professor of Classical Languages and Literature GEORGE VINCENT KIDDER, Ph.D. (1922) Professor of Classical Languages and Literature WILLIAM SCRIBNER KIMBALL, Ph.D. (1949) Associate Professor of Mathematics FLORANCE BEESON KING, Ph.D. (1940) Professor of Home Economics THOMAS CLAIR KING, Ed. D. (1951) Professor of Education DAVID LESLIE KINSEY, M.A. (1950) Assistant Professor of Music

The Faculty

DONALD MARKHAM KINSMAN, M.S. (1951) Instructor in Animal and Dairy Husbandry LEWIS EDWARD KNOLLMEYER, PH.D. (1947) Associate Professor of Economics (On leave, 1951-52) ESTHER LUCILE KNOWLES, M.S. (1945) Assistant Professor of Home Economics FRED CARL KOERNER, JR., M.C.E. (1948) Assistant Professor of Civil Engineering ROY KORSON, M.D. (1951) Assistant Professor of Pathology KERMIT EDWARD KRANTZ, M.D. (1951) Instructor in Obstetrics and Gynecology EDWARD KSIAZEK, B.S. (1948) Instructor in Electrical Engineering RAYMOND FRANK KUHLMAN, M.D. (1951) Instructor in Orthopedic Surgery ELIZABETH KUNDERT, M.D. (1942) Assistant Professor of Psychiatry MERTON PHILIP LAMDEN, Ph.D. (1947) Assistant Professor of Biochemistry ROBERT EDWIN LANE, M.A. (1951) Instructor in Classical Languages and Literature RALPH ROBERT LAPOINTE, B.S. Instructor in Physical Education for Men JULES ALPHONSE LARRIVEE, Ph.D. (1946-48; 1949) Associate Professor of Mathematics PAUL GREEN LEFEVRE, Ph.D. (1945) Associate Professor of Physiology and Biophysics EUGENE LEPESCHKIN, M.D. (1947) Assistant Professor of Experimental Medicine JULIAN IRA LINDSAY, A.M. (1910) Professor of English GEORGE THOMAS LITTLE, Ph.D. (1950) Assistant Professor of Political Science JOHN ERNEST LITTLE, Ph.D. (1945) Professor of Biochemistry (Agr.) JOHN HUTCHISON LOCHHEAD, Ph.D. (1942) Professor of Zoology PHILIPP HANS LOHMAN, Ph.D. (1945) Converse Professor of Commerce and Economics LITTLETON LONG, Ph.D. (1949) Assistant Professor of English CARL LUCARINI, A.M. (1928) Assistant Professor of Chemistry ELEANOR MERRIFIELD LUSE, Ph.D. (1947) Associate Professor of Speech Instructor in Clinical Surgery JOHN FREDERICK LYNCH, M.D. (1939) HERBERT CHRISTIAN MCARTHUR, A.M. (1950) Instructor in English ROBERT JAMES MCKAY, JR., M.D. (Jan. 1950) Assistant Professor of Pediatrics EDD RUTHVEN McKEE, M.S., E.E. (1934) Professor of Electrical Engineering KARL CORNELIUS MCMAHON, M.D. (1925) Assistant Professor of Otolaryngology and Rhinology EDWARD DOUGLAS McSWEENEY, M.D. (1923) Assistant Professor of Gynecology Instructor in Clinical Medicine KATHERINE ELLA McSWEENEY, M.D. (1939) ALBERT GEORGE MACKAY, M.D. (1933) Professor of Surgery JOHN VAN SICKLEN MAECK, M.D. (1948) Assistant Professor of Obstetrics and Gynecology Assistant Professor of Dental Hygiene J. EDWARD MARCEAU, D.D.S. (1949) Instructor in Mechanical Engineering GILBERT ADAMS MARSHALL, M.S. (1947) FREDERIC CARVER MARSTON, JR., Ph.D. (1948) Assistant Professor of English

Assistant Professor of Music MIRIAM NATILEE MARSTON, A.M. (1926) JAMES WALLACE MARVIN, Ph.D. (1939) Professor of Botany Assistant Professor of Medical Technology INA MAXSON, M.S. (1947) MRS. SALLY BERRY MAYBURY, M.Ed. (1944) Assistant Professor of Economics GORDON MONTGOMERY MEADE, M.D. (1950) Assistant Professor of Medicine HAROLD EDWARD MEDIVETSKY, M.D. (1937) Instructor in Clinical Medicine JOHN TRUMBULL METCALF, Ph.D. (1921) Professor of Psychology Instructor in Agricultural Economics JOSEPH FRANK METZ, JR., B.S. (1951) Instructor in Home Economics META BETZ METZE (MRS. R. W.), B.S. (1950) Professor of Agronomy ALVIN REES MIDGLEY, Ph.D. (1951) REGINALD VENN MILBANK, B.S. (1946-48; 1949) Associate Professor of Civil Engineering DONALD BARKER MILLER, M.D. (Jan., 1951) Instructor in Chest Surgery HOWARD GUY MILLINGTON, C.E. (1920) Assistant Professor of Mathematics Instructor in Public Health HENRY LEE MILLS, D.V.M. (1943) Assistant Professor of Art ISABEL CLARK MILLS (MRS. C. H.), A.M. (1932) ROGER SHERMAN MITCHELL, M.D. (1950) Assistant Professor of Medicine PAUL AMOS MOODY, Ph.D. (1927) Howard Professor of Natural History and Zoology RUFUS CLEGG MORROW, M.D. (1951) Assistant Professor of Otolaryngology and Rhinology RAYMOND FRED MOSHER, S.M. (1948) Associate Professor of Electrical Engineering BENNET BRONSON MURDOCK, JR., Ph.D. (1951) Assistant Professor of Psychology MILTON JOSEPH NADWORNY, Ph.D. (1952) Assistant Professor of Economics (2nd Sem.) CHESTER ALBERT NEWHALL, M.D. (1929) Thayer Professor of Anatomy JOHN ALVIN NEWLANDER, Ph.D. (1919) Professor of Animal and Dairy Husbandry GEORGE HUBERT NICHOLSON, A.M. (1923) Assistant Professor of Mathematics ALEX BENJAMIN NOVIKOFF, Ph.D. (1948) Professor of Experimental Pathology and Associate Professor of Biochemistry CATHERINE FRANCES NULTY, Ed.M. (1920) Associate Professor of Economics (Secretarial) ANDREW EDGERTON NUQUIST, Ph.D. (1938) Professor of Political Science LENA RAUB OAKLEY, M.A. (1947) Assistant Professor of Nursing HUGH JOHN O'BRIEN, JR., Captain, U. S. Army, B.S. (1950) Assistant Professor of Military Science and Tactics CHARLES HENRY OKEY, Ph.D. (1950) Assistant Professor of Bacteriology HENRI LOUIS PACHE, M.D. (1951) Clinical Instructor in Surgery Associate Professor of Music IPPOCRATES PAPPOUTSAKIS, Mus.B. (1940) VICTOR H. PAQUET, B.S. (1949) Assistant Professor of Mechanical Engineering HERBERT DEAN PEARL, A.M. (1941-45; 1947) Professor of Education

The Faculty

BJARNE PEARSON, M.D. (1945) Professor of Pathology JAMES WILLIAM PETERSEN, M.A. (1950) Assistant Professor of Economics OSCAR SYLVANDER PETERSON, JR., M.D. (1944) Associate Professor of Radiology HAROLD BARNARD PIERCE, Ph.D. (1937) Professor of Biochemistry JAMES EUGENE POOLEY, A.M. (1928) Associate Professor of Classical Languages and History WILLARD BISSELL POPE, Ph.D. (1934) Corse Professor of English Language and Literature ARCHIBALD THOMPSON POST, Ed.M. (1929) Associate Professor of Physical Education for Men MILTON POTASH, M.A. (1951) Instructor in Zoology PLATT RUGAR POWELL, M.D. (1949) Instructor in Urology WILLIAM ARTHUR PRATT, M.D. (1950) Instructor in Clinical Medicine *LOUIS BLACKMER PUFFER, C.E. (1921) Professor of Civil Engineering HERBERT EVERETT PUTNAM, Ph.D. (1931) Associate Professor of History PHYLLIS MELVILLE QUINBY, B.S. (1949) Instructor in Dental Hygiene WILHELM RAAB, M.D. (1939) Professor of Experimental Medicine LOUISE ADELE RAYNOR, Ph.D. (1946) Assistant Professor of Botany ELMER MCCREADY REED, M.D. (1948) Instructor in Otolaryngology WALFORD TUPPER REES, M.D. (1925) Professor of Clinical Surgery EDWARD K. REIMAN, D.D.S. (1951) Instructor in Dental Hygiene FRANC MARIO RICCIARDI, M.A. (1947) Assistant Professor of Economics (On leave, 1951-52) WILLIAM HUGH RIDDELL, Ph.D. (1948) Professor of Animal and Dairy Husbandry ALAN ROBERTS, M.A. (1946-47; 1949) Assistant Professor of Romance Languages WILLIAM VAN BOGAERT ROBERTSON, Ph.D. (1945) Associate Professor of Experimental Medicine and Biochemistry JOHN WILLOUGHBY ROBINSON, M.A. (1948) Instructor in Political Science ELEANOR LOUISE ROCKWOOD, B.S. (1949) Instructor in Home Economics LELAND HAROLD ROLOFF, M.A. (1951) Instructor in Speech ALBAN BENNETT ROONEY, M.S. (1922) Assistant Professor of Physics JAMES ALBERT ROOT, B.S. (1948) Instructor in Civil Engineering LYMAN SMITH ROWELL, M.S. (1925) Associate Professor of Zoology VIOLA RUSSELL, M.D. (1942) Lecturer in Family Living and Instructor in Public Health CHARLES BRUSH RUST, M.D. (1948) Instructor in Orthopedic Surgery JACOB SAMUEL SAUER, Colonel, U.S. Army, B.S. (1949) Professor of Military Science and Tactics RICHARD HENRY SAUNDERS, JR., M.D. (1950) Assistant Professor of Clinical Pathology and Medicine WADI I. SAWABINI, D.D.S. (1950) Instructor in Dental Hygiene * Deceased October 11, 1951.

Personnel

ROBERT NEWTON SAXBY, M.D. (1950) Instructor in Radiology Assistant Professor of Biochemistry ARNOLD HAROLD SCHEIN, Ph.D. (1947) EDWIN CALVIN SCHNEIDER, M.S. (1946) Associate Professor of Agricultural Engineering EVA IDA SCHROEDER, Ph.D. (1952) Instructor in English (2nd Sem.) HAROLD SEESSEL SCHULTZ, Ph.D. (1946) Associate Professor of History GEORGE ADAM SCHUMACHER, M.D. (1950) Professor of Neurology ROBERT NELSON SEARLES, A.B. (1948) Instructor in Physical Education for Men MALCOLM FLOYD SEVERANCE, M.A. (1951) Instructor in Economics LAURENCE FOREST SHOREY, M.S. (1926) Assistant Professor of Electrical Engineering FERDINAND JACOB MORRIS SICHEL, Ph.D. (1937) Professor of Physiology ROBERT GOODFELLOW SIDLE, M.M.E. (1945) Professor of Mechanical Engineering RUTH GERTRUDE SIMOND, Ph.D. (1948) Assistant Professor of Mathematics ETHAN ALLEN HITCHCOCK SIMS, M.D. (Feb. 1950) Assistant Professor of Biochemistry and Medicine HOWARD DARELL SLACK, D.D.S. (1950) Instructor in Dental Hygiene WILLIAM JOSEPH SLAVIN, M.D. (1942) Associate Professor of Clinical Obstetrics and Gynecology ROBERT FREDERICK SMILEY, Captain, U.S. Army, B.S. (1949) Assistant Professor of Military Science and Tactics HOWARD MARSHALL SMITH, JR., M.S. (1947) Associate Professor of Electrical Engineering ARTHUR BRADLEY SOULE, JR., M.D. (1928) Professor of Radiology JOSEPH WORCESTER SPELMAN, M.D. (1948) Assistant Professor of Pathology THOMAS SPROSTON, JR., Ph.D. (1946) Associate Professor of Botany Associate Professor of Pathology ERNEST STARK, M.D. (1945) SADAH SHUCHARI START (MRS. W. P.) (1946-48; 1949) Assistant Professor of Music EDWARD WILLIAM STEELE, JR., B.A. (1951) Instructor in Political Science CHARLES WATTLES STEPHENSON, M.D. (1948) Assistant Professor of Psychiatry ROBERT PRINDLE STORY, M.S. (1947) Assistant Professor of Agricultural Economics (On leave, 1951-52) NORMAN KENNETH STRASSBURG, M. Ed. (1946) Instructor in Physical Education for Men WALTER ALVA STULTZ, Ph.D. (1937) Associate Professor of Anatomy MARY BURKE SULLIVAN, A.M. (1934) Associate Professor of English and Supervisor of Student Teaching Assistant Professor of Pediatrics RALPH DANIEL SUSSMAN, M.D. (1946) CHARLES IVES TAGGART, D.M.D. (1942) Assistant Professor of Oral Hygiene and Dental Medicine Associate Professor of Botany FRED HERBERT TAYLOR, Ph.D. (1943) CHRISTOPHER MARLOWE TERRIEN, M.D. (1939) Assistant Professor of Clinical Medicine

The Faculty

LOUIS GEORGE THABAULT, M.D. (1939) Instructor in Surgery CHARLES MAIR THOMSON, M.S. (1948) Instructor in Mechanical Engineering FREDERICK CHARLES THORNE, Ph.D., M.D. (1939) Assistant Professor of Psychiatry RANDOLPH SHEPARDSON TOWNE, A.M. (1928) Assistant Professor of Romance Languages EDWARD LAWRENCE TRACY, B.S. (1943) Instructor in Public Health Assistant Professor of English IACK TREVITHICK, Ph.D. (1946) Associate Professor of Surgery KEITH FRANK TRUAX, M.D. (1932) ABEL TURNIER, M.D. (1951) Instructor in Pathology ARTHUR FREDERICK TUTHILL, M.S. (1946) Associate Professor of Mechanical Engineering MARSHALL COLEMAN TWITCHELL, JR., M.D. (1942) Assistant Professor of Ophthalmology Associate Professor of Clinical Medicine HIRAM EUGENE UPTON, M.D. (1930) FREDERICK WILLIAM VAN BUSKIRK, M.D. (1946) Associate Professor of Radiology RICHARD ALTON VAN NOSTRAND (1951) Lecturer in Economics Assistant Professor of Agronomy KENNETH EVERSON VARNEY, M.S. (1946) BENJAMIN BOOTH WAINWRIGHT, A.M. (1925) Associate Professor of English Professor of Physics NELSON LEE WALBRIDGE, Ph.D. (1924) Assistant Professor of Neurosurgery LESTER JULIAN WALLMAN, M.D. (1948) Instructor in Zoology FRANCES RUTH WATSON, M.S. (1950) WINSTON ARTHUR WAY, M.S. (1951) Instructor in Agronomy Instructor in Agricultural Economics FRED CLARENCE WEBSTER, B.S. (1951) Assistant Professor of German TRUMAN MARION WEBSTER, A.B. (1945) (On leave, 1951-52) Instructor in Music FRANCIS ALEXANDER WEINRICH, M.A. (1950) Assistant Professor of Zoology FLOYD GERALD WERNER, Ph.D. (1950) Assistant Professor of Economics *DAVID ELLIOTT WHITE, A.M. (1949) HILTON ADDISON WICK, LL.B. (1949) Instructor in Economics SUMNER WILLARD, Ph.D. (1947) Assistant Professor of Romance Languages (On leave, 1951-52) Lecturer in Home Economics BLAIR WILLIAMS, M.S. (1949-50; 1951) WALTER LEROY WILSON, Ph.D. (1949) Instructor in Physiology and Biophysics EPHRAIM WOLL, M.D. (1949) Associate Professor of Pathology Associate Professor of Agronomy GLEN MEREDITH WOOD, Ph.D. (1950) FLORFNCE MAY WOODARD, Ph.D. (1923) Associate Professor of Economics RICHARD S. WOODRUFF, M.D. (1950) Assistant Professor of Pathology LLOYD ABRAM WOODWARD, M.S. (1920) Assistant Professor of Physics Assistant Professor of German ALBERT W. WURTHMANN, M.A. (1947) WILLIAM GREENHILL YOUNG, M.D. (1949) Assistant Professor of Psychiatry EDWARD JAMES ZAWALICK, B.S., Captain, U. S. Air Force (1951) Assistant Professor of Air Science and Tactics * Resigned February 1, 1952.

Personnel

Associates and Assistants

WILLIAM JOSEPH ADELMAN, JR., B.S. Research Assistant in Physiology and Biophysics ANN RUTH BAKER Research Assistant in Biochemistry CHARLES ALLEN BLOOD, JR., B.S. Graduate Assistant in Chemistry DALLAS RICHARD BOUSHEY Demonstrator in Anatomy MARY BREEN, B.S. Assistant in Clinical Pathology CAROLYN LEWIS BRIGHTMAN, B.S. Teaching Assistant in Home Economics *GEORGE WILSON BROOKS, B.S. Assistant in Psychiatry GLORIA ANN CHRYSTOWSKI, B.S. Research Assistant in Biochemistry ROBERT FREDERICK COFFIN, B.S. Graduate Assistant in Agricultural Economics Graduate Assistant in Biochemistry LEO LOUIS CONTOIS, JR., B.S. BENJAMIN JOHN COSENZA, B.A. Teaching Assistant in Botany SHIRLEY DOROTHY CYR, B.S. Research Assistant in Anatomy JOSEPH LUCIEN ROMEO DE GRANDPRE, M.D. -Research Associate in Experimental Medicine MRS. ANN DINSE, B.A. Research Assistant in Pathology MRS. NANCY CANTOR EDDY, A.B. Research Assistant in Physiology and Biophysics PETER STEVENSON FINLAY, B.S. Graduate Assistant in Zoology WILDA ROMAYNE GIGEE, A.B. Research Assistant in Experimental Medicine DAVID JON HAGAR, B.A. Assistant in Geology LISELOTTE HECHT, M.S. Research Assistant in Pathology WILLIAM HENRY HEININGER, M.D. Assistant in Medicine RALPH ALBERT HORNE, B.S. Graduate Assistant in Chemistry SIBYL MERRIAM HOWE, M.S.S. Social Worker EDWARD JOSEPH KERLE, B.A. Graduate Assistant in Chemistry PAUL ROGER KIMBALL, B.A. Assistant in Romance Languages MRS. LORRAINE KORSON, M.S. Research Assistant in Pathology ALICE MARGARET LAUGHLIN, B.S. Graduate Assistant in Biochemistry JOHN HENRY MCCREA, M.D. Assistant in Medicine Graduate Assistant in Chemistry TOMAS FRANCIS McKEON, B.S. DANIEL JOSEPH MACERO, B.S. Graduate Assistant in Chemistry KATHRYN ANN MEARS, B.S. Graduate Assistant in Botany DORCAS GROUT MONTGOMERY Teaching Assistant in Home Economics BARBARA ALICE MOORE Assistant in Biochemistry Graduate Assistant in Chemistry LAURENCE THOMAS PLANTE, B.S. Research Assistant in Pathology ESTELLE PODBER, A.B. WILLIAM IRVINE ROGERS, A.B. Teaching and Research Assistant in Agricultural Biochemistry ANTHONY RALPH ROMANO, B.A. Graduate Assistant in Biochemistry Research Assistant in Pathology IEAN MARGARET RYAN, B.S. BARRY F. SCHWARTZ, B.S. Graduate Assistant in Experimental Medicine * Absent on leave.

Associates and Assistants, Fellows

CRISTINA ELISABETH SCHWEIKER, A.B. Graduate Assistant in Biochemistry Assistant in Biochemistry DOROTHY WINGETT SEARS, B.S. Research Associate in Experimental Medicine BORYS SURAWICZ, M.D. Teaching Assistant in Botany ROBERT THAYER WILCE, B.S. Graduate Assistant in Chemistry JACKSON WARD WISNER, JR., B.S. SUMNER JASON YAFFE, M.A. Research Assistant in Pediatrics Assistant in Biochemistry EMILY MAE YOUNG, B.S. Research Associate in Pharmacology HOWARD L. ZAUDER, M.S.

FELLOWS

ROBERTO AGRAZ Y AGRAZ, M.D. RICHARD EMILE BOUCHARD, M.D. LUTHER WILLARD BUBER, M.D. LITTLETON JAY BUNCH, M.D. FRANCIS ARNOLD CACCAVO, M.D. CHARLES VINCENT COX, M.D. PETER STANLEY CZACHOR OLIVE MORRIS DAVIES, M.D. HARLAND MARTIN DEOS, M.D. WILLIAM THOMAS FAGAN, JR., M.D. JOSEPH CLAYTON FOLEY, M.D. MINORU FUKUDA, M.D. LAWRENCE NOAH GILLIAM, M.D. NILO ERNESTO HERRERA, M.D. WILLIAM HERBERT JOHNSTON, M.D. MICHAEL DOMINIC JOYCE, L.R.C.P.S. JAMES BISHOP McGILL, M.D. STYLIOS PETER NIMITAS, M.D. HAROLD GORDON PAGE, M.D. ALBERT' MALMROSE PEARSON, M.D. EDWIN OXMAN POLIS, B.S. ROBERT EMMETT PRICE, M.D. WILLIAM EBBERT PURNELL, M.D. IAMES EDWIN SIMPSON, M.D. ANTHONY JOSEPH TABACCO, M.D. BURTON S. TABAKIN, M.D. DAVID LATHAM TABER, M.D. EUGENE RANDOLPH TOMPKINS, JR., M.D. DEAN HERBERT WHEELER, M.D.

Pathology Medicine Anesthesia Surgery Surgery Anesthesia Obstetrics and Gynecology Pediatrics Anesthesia Urology Radiology Anesthesia Medicine Pathology Radiology Medicine Surgery Medicine Surgery Urology Physiology and Biophysics Radiology Radiology Orthopedic Surgery Radiology Physiology Obstetrics and Gynecology Pediatrics Medicine

UNIVERSITY COUNCIL

The President, the Deans of the Colleges, the Dean of Women, and the Dean of Administration.

UNIVERSITY COMMITTEES

Effective July 1, 1951

- ADMISSIONS: P. A. Fraleigh (Chairman), T. M. Adams, R. G. Cooley, S. L. Johnston, F. C. Koerner, M. P. Lamden, T. J. Sproston, Director of Admissions, the Deans.
- ADULT EDUCATION: E. K. Eakin (Chairman), F. P. Colburn, Helen Coleman, E. Greif, J. C. Huden, R. H. Kroepsch, I. Pappoutsakis, H. S. Schultz.
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- PUBLIC RELATIONS: W. H. Riddell (Chairman), E. L. Amidon, R. B. Huber, R. J. McKay, J. W. Robinson, J. W. Spaven, the Deans.
- RELIGIOUS LIFE: E. J. Dole (Chairman), Constance Brown, R. A. Hall, H. H. Kahn, Natilee Marston, H. M. Smith, Mary Sullivan.
- RESIDENCE: H. C. Collins (Chairman), T. H. Harwood, G. R. Hopwood, L. R. Kelley, L. Lisman, H. D. Pearl, E. M. Root.
- STUDENT ADVISORY: W. R. Adams (Chairman), S. T. Allen, Florence Bailey, Dolores DiRubbo, G. R. Hopwood, R. H. Kroepsch, J. E. Little, D. Marburg, F. C. Marston, R. V. Milbank, J. Trevithick, N. L. Walbridge, Margaret Wing, Florence Woodard.
- STUDENT AID: H. C. Collins (Chairman), Grace Fox, C. F. Hoffman, D. Marburg, H. D. Pearl, A. T. Post, the Deans.
- STUDENT HEALTH: Elizabeth Wilson (Chairman), R. W. Amidon, J. F. Bell, Helen Coleman, R. W. Collins, J. C. Evans, Jean Ichter, C. W. Stephenson.
- STUDENT PERSONNEL: G. Dykhuizen (Chairman), R. M. Carter, J. P. Chaplin, E. K. Eakin, G. R. Hopwood, Esther Knowles, J. E. Pooley, F. H. Taylor, Margaret Wing.

Demonstration and Practice Schools

Laboratory Demonstration and Practice Schools Elementary Education

Demonstration Schools

Elihu B. Taft School—Burlington CATHERINE C. CARTIER KATHERINE M. O'BRIEN MRS. ANTOINETTE BURKE MRS. ERNA L. BENEDICT MRS. PERSIS G. POST IVIS B. FLINT A. FERN SOUTHER ELIZABETH P. DUNTON FLORENCE M. FISHER MRS. RUTH P. INGERSOLL

Practice Schools

Adams School—Burlington MARY K. MCDERMOTT ELSIE A. TINKER HELEN M. RANSOM MRS. BERNICE H. NEWTON

Ira Allen School—Burlington MARY K. McDERMOTT MRS. RUTH S. AINSWORTH NINA P. CRAM ETHEL P. SYMES DOROTHY L. PARKER MRS. DOROTHY N. MERRILL FLORENCE G. GREENE

Lawrence Barnes School—Burlington MRS. MARGARET S. COTEY MRS. MARION K. WILKINSON KATHRYN E. HUBBARD ADELINE R. McARTHUR

Champlain School—Burlington MRS. MARGARET S. COTEY MRS. CONSTANCE JARVIS MRS. JUNE D. WILLIAMS MRS. MARY J. BUTTLES

Converse School—Burlington MRS. MARGARET S. COTEY MRS. GRACE S. HARTWELL MRS. PEARL McGRATH MRS. BESSIE F. ROOT ROSEMARY LEWIS Supervising Principal Grade 6 Grade 5 Grade 3 Grade 3 Grade 2 Grade 2 Grade 1

Kindergarten

Supervising	Princip	al
	Grade	5
	Grade	2
	Grade	1

Supervising Principal Grade 6 Grade 5 Grade 3 Grade 3 Grade 2 Grade 1

Supervising Principal Grade 6 Grade 2 Grade 1

Supervising Principal Grade 4 Grade 2 Grade 1

Supervising Principal Grade 5 Grade 4 Grade 2 Grade 1

- Personnel
- ELIHU B. TAFT SCHOOL—Burlington MRS. PERSIS G. POST ELIZABETH P. DUNTON
- S. W. Thayer School—Burlington MRS. DORIS A. SOMAINI MRS. MARY H. CORRIVEAU MRS. CAROLYN J. BRADBURY JEAN A. MURPHY RITA C. KEEFE
- H. O. Wheeler School—Burlington CATHERINE C. CARTIER MARJORIE M. McGRATH LILLIAN E. TERRILL

Vocational Education

Agricultural Education COLA D. WATSON, M.Ed. HAROLD R. CUSHMAN, Ph.D. CEDRIC A. LAFLEY, M.Ed.

Supervisors of Student Teaching J. ARTHUR PETERS, B.S. BURTON GREGG, B.S: MERLIN WELLS, M.Ed. HENRY ROSS, M.Ed. WAYNE TWOMBLY, B.S. HAROLD HAYNES, B.S. WILFRED LESLIE, B.S. CHARLES HORTON, M.Ed. WILLIAM PETERS, B.S.

Distributive Education JOHN M. MORROW, M.C.S.

Homemaking Education HELEN FINNEGAN, M.S. MARION H. BROWN, M.S.

Trade and Industrial Education HAROLD F. GRAEME, M.Ed. NEAL B. PERKINS, M.Ed. GILBERT A. MARSHALL, B.S. MICHAEL RUSSO, B.S. F. DONALD HAVENS Grade 2 Grade 2

Supervising Principal, Grade 1-2 Grade 6 Grade 5

Grade 3 Grade 1

Supervising Principal Grade 6 Grade 2

State Supervisor State Teacher Trainer Assistant State Supervisor

Bradford Academy Brattleboro High School Highgate High School Lyndon Institute (Morrisville) Peoples Academy North Troy High School Orleans High School Poultney High School Thetford Academy

State Supervisor

State Supervisor State Teacher Trainer

State Supervisor State Teacher Trainer Assistant Assistant Assistant

Vocational Education, Experiment Station

AGRICULTURAL EXPERIMENT STATION STAFF

Director JOSEPH EDWARD CARRIGAN, M.A., LL.D., D.Ec.Sc. *PAUL ROBERT MILLER, M.S. Associate Director EDMUND MORTON ROOT, B.S. Assistant to the Director THURSTON MADISON ADAMS, Ph.D. Agricultural Economist and Acting Associate Director WILLIAM RITCHIE ADAMS, JR., Ph.D. Forester Research Assistant HERBERT PATTERSON BEAM, B.A. Horticulturist CHARLES HUGO BLASBERG, M.S. Associate Animal Pathologist WESSON DUDLEY BOLTON, D.V.M., M.S. ALEC BRADFIELD, M.S. Associate in Dairy Manufacturing Rural Sociologist ROBERT MCCRILLIS CARTER, JR., Ph.D. MARGUERITE JULIA DOHENY, B.S. Administrative Assistant WINFIELD BOOTH DURRELL, D.V.M., M.S. Assistant Animal Pathologist Assistant in Dairy Production ROBERT FITZSIMMONS, M.S. Assistant in Biochemistry *MURRAY WILBUR FOOTE, M.S. JAMES MARSHALL FRAYER, M.S. Associate Dairy Bacteriologist ALEXANDER GERSHOY, Ph.D. Geneticist Research Assistant MARY THORNE GREENE, B.S. DONALD CEDRIC HENDERSON, M.S. Poultryman Assistant Forester FREDERICK SHERMAN HOPKINS, JR., M.F. Assistant Horticulturist RICHARD JOHN HOPP, M.S. Ornamental Horticulturist EDWARD PUTNAM HUME, M.S. Microbiologist DONALD BOYES JOHNSTONE, Ph.D. Chemist (Retired) CHARLES HOWLAND JONES, M.S. Assistant Agronomist **†JOSEPH BURNHAM KELLY, M.S.** Nutritionist ELORANCE BEESON KING, Ph.D. DONALD MARKHAM KINSMAN, M.S. Assistant Animal Husbandman JOHN ERNEST LITTLE, Ph.D. Biochemist Plant Physiologist JAMES WALLACE MARVIN, Ph.D. SUSAN BREWSTER MERROW, M.Ed. Assistant Nutritionist JOSEPH FRANK METZ, JR., B.S Assistant Agricultural Economist ALVIN REES MIDGLEY, Ph.D. Agronomist Home Economist MARIANNE MUSE, M.S. Associate Animal and Dairy Husbandman IOHN ALVIN NEWLANDER, Ph.D. RALPH EAVISON REED, B.S. Assistant in Dairy Manufacturing WILLIAM HUGH RIDDELL, Ph.D. Animal and Dairy Husbandman * On leave, 1951-52.

† On military leave.

Personnel

EDWIN CALVIN SCHNEIDER, M.S. LESTER HURLIN SMITH, M.S. JOHN WALLACE SPAVEN, B.S. THOMAS SPROSTON, JR., Ph.D. *ROBERT PRINDLE STORY, M.S. FRED HERBERT TAYLOR, Ph.D. *RAYMOND HERMAN TREMBLAY, Ph.D. Assistant Agricultural Economist RALPH CLIFFORD TURNBULL KENNETH EVERSON VARNEY, M.S. JAMES ROGER WADSWORTH, V.M.D., M.S. WINSTON ARTHUR WAY KATHLEEN BEAVINGTON WEBB, B.S. FRED CLARENCE WEBSTER, B.S. HARRY CROSSMAN WHELDEN, JR., B.S. GLEN MEREDITH WOOD, Ph.D.

Agricultural Engineer Assistant Agronomist Editor Plant Pathologist Assistant Agricultural Economist Plant Morphologist Technician Assistant Agronomist Assistant Animal Pathologist Assistant Agronomist Assistant Editor Assistant Agricultural Economist Assistant Poultryman Associate Agronomist

ENGINEERING EXPERIMENT STATION STAFF

EDD RUTHVEN McKEE, M.S., E.E. REGINALD V. MILBANK, B.S. ROBERT GOODFELLOW SIDLE, M.M.E. MARION E. WILLIS

Director and Electrical Engineer Civil Engineer Mechanical Engineer Secretary

EXTENSION SERVICE STAFF

JOSEPH EDWARD CARRIGAN, M.A., LL.D., D.Ec.Sc. *PAUL ROBERT MILLER, M.S. EDMUND MORTON ROOT, B.S. THURSTON MADISON ADAMS, Ph.D. Agricultural Economist and Acting Associate Director CHARLOTTE ANNABEL BEATTY, B.S. CHARLES HUGO BLASBERG, M.S. WESSON DUDLEY BOLTON, D.V.M., M.S. CHARLES HENRY BURCH, B.S. CHARLES LYMAN CALAHAN, M.S. ROBERT POWERS DAVISON, M.Ed. WARREN ALBERT DODGE, B.S. MARGUERITE JULIA DOHENY, B.S. GEORGE MACINTOSH ENGLAND, M.S. *RAYMOND THOMAS FOULDS, JR., B.S. DONALD CEDRIC HENDERSON VERLE RANDALL HOUGHABOOM, M.S. EDWARD PUTNAM HUME, M.S. * On leave, 1951-52.

Director Associate Director Assistant to the Director

Home Management Specialist Horticulturist Associate Animal Pathologist Assistant Editor Horticulturist State Agricultural Agent Leader Dairyman Administrative Assistant Assistant Agricultural Economist Forester Poultryman Assistant Agricultural Economist

Ornamental Horticulturist

Experiment Station and Extension Service

BENJAMIN ANGUS JONES, JR., M.S. WILLIAM PATRICK LEAMY, B.S. MARJORIE ELLINWOOD LUCE, B.S. **IOHN DOTY MERCHANT, B.S.** MARY PAULINE ROWE, B.S. EDWIN CALVIN SCHNEIDER, M.S. LESTER HURLIN SMITH, M.S. JOHN WALLACE SPAVEN, B.S. JAMES ROGER WADSWORTH, V.M.D., M.S. EDWARD BRADFORD WALKER, M.F. KATHLEEN BEAVINGTON WEBB, B.S. HARRY CROSSMAN WHELDEN, JR., B.S. MARGARET JUNE WILLIAMS, M.A. ANNA MARIAN WILSON, M.S.

Assistant Agricultural Engineer Assistant Dairvman State Home Demonstration Leader State 4-H Club Agent Leader Assistant State 4-H Club Agent Leader Agricultural Engineer Agronomist Editor Assistant Animal Pathologist Forester Assistant Editor Assistant Poultryman Clothing Specialist Nutritionist

County Agricultural Agents

Addison County

Agricultural: LUCIEN DEMERS PAQUETTE, B.S. Middlebury JOHN FRANKLIN STEPHENSON, B.S. (Assistant) Middlebury Home Demonstration: MRS. LEONA WARREN THOMPSON, B.S. Middlebury Middlebury Club: HARRIET ELLICE PROCTOR, B.S.

Bennington County

Agricultural: HARRY ROBERT MITIGUY, B.S.	Bennington
Home Demonstration: MRS. RUTH JEWETT LANG	Bennington
Club: SEAVER DAVID WRIGHT, JR., B.S.	Bennington

Caledonia County

Agricultural: †WILLIAM MICHAEL COREY, B.S. St. Johnsbury St. Johnsbury PHILIP KAIR GRIME (Acting) Home Demonstration: MRS. EDNA BECK KENNELLY (Acting) St. Johnsbury

Club: MRS. MARGARET TOWER BECK, B.S.

Chittenden County

Agricultural: ROBERT LACKIE CARLSON, B.S.	Essex Junction
Home Demonstration: JENNIE MAY SWETT, B.S.	Essex Junction
Club: MARGARET CALLAHAN WENTZEL, B.S.	Essex Junction

Essex County

Guildhall Agricultural: EARLE DRAKE CLARK, B.S. Home Demonstration: MRS. FLORENCE MARY CURRIER (Acting)

Guildhall

St. Johnsbury

† On military leave.

Personnel

Franklin County

	,
Agricultural: RALPH CALDWELL McWILLIAMS, B.S. Home Demonstration: RHODA ALETHA HYDE, A.M. Club: LILLIAN ANDREWS, B.S.	St. Albans St. Albans St. Albans
Grand Isle County	1 1
Agricultural: ROBERT ELLIS WHITE, B.S. Club: MRS. LOIS ALGER SOULE, B.S.	North Hero North Hero
Lamoille County	:
Agricultural: FRANK DYER JONES, B.S. Home Demonstration: MRS. ELIZABETH EMMONS ROBINS,	
Club: TRUE TOWER, B.S.	Morrisville Morrisville
Orange County	
Agricultural: RAYMOND RICHARD ROGERS Home Demonstration: MARY ANNA BURBANK, B.S. Club: RUSSELL WILLARD SMITH, B.S.	Chelsea Chelsea Chelsea
Orleans County	
Agricultural: ROGER DAVIS WHITCOMB, B.S. Home Demonstration: MRS. ANNE HUCKINS BUTTERFIELD	
Club: MRS. ALICE MARGARET LEONARD (Acting)	Newport Newport
Rutland County	
Agricultural: ROY ALLEN BURROUGHS, B.S. Home Demonstration: ALICE JANE PRATT, B.S. Club: EDWIN EMIL BERGSTROM	Rutland Rutland Rutland
Washington County	
Agricultural: ROBERT ORVILLE SINCLAIR, B.S. Home Demonstration: JEAN MAHANEY, B.S. Club: MRS. RUTH HAINES TOWNE, B.S.	Montpelier Montpelier Montpelier
Windham County	
Agricultural: RAYMOND IRVING PESTLE, JR., M.S. Home Demonstration: MRS. ETHEL RANDALL MAY (Acting) Club: BRUCE ROBERT BUCHANAN, B.S.	Brattleboro Brattleboro Brattleboro
Windsor County	
Agricultural: WILLIAM WILLARD STONE, B.S. Home Demonstration: MRS. JENNIE ARMSTRONG HALL, B.S. Club: MRS. ISABELLE PAIGE BARDEN, B.S.	Woodstock Woodstock Woodstock

Related Services

RELATED SERVICES STAFF

JOSEPH EDWARD CARRIGAN, M.A., LL.D., D.Ec.Sc. Director Associate Director *PAUL ROBERT MILLER, B.S. THURSTON MADISON ADAMS, Ph.D. Acting Associate Director EDMUND MORTON ROOT, B.S. Assistant to the Director and Farm Superintendent WESSON DUDLEY BOLTON, D.V.M., M.S. Associate Animal Pathologist Assistant Chemist, Regulatory Service EUGENE FIELD BOYCE, B.S. Associate in Dairy Manufacturing ALEC BRADFIELD, M.S. OSMAN MYRON CAMBURN, M.S. Director of Short Courses and Educational Conferences Administrative Assistant MARGUERITE JULIA DOHENY, B.S. Assistant Animal Pathologist WINFIELD BOOTH DURRELL, D.V.M., M.S. Assistant in Dairy Production ROBERT FITZSIMMONS, M.S. Associate Dairy Bacteriologist JAMES MARSHALL FRAYER, M.S. Assistant Horticulturist RICHARD JOHN HOPP, M.S. EDWARD PUTNAM HUME, M.S. Ornamental Horticulturist Associate Animal and Dairy Husbandman JOHN ALVIN NEWLANDER, Ph.D. Assistant in Dairy Manufacturing RALPH EAVISON REED, B.S. WILLIAM HUGH RIDDELL, Ph.D. Animal and Dairy Husbandman JAMES ROGER WADSWORTH, V.M.D., M.S. Assistant Animal Pathologist Chemist (Retired), Regulatory Service LEWELL SETH WALKER, B.S.

* On leave, 1951-52.

Register, 1951-1952

STUDENTS IN RESIDENCE, FALL 1951

COLLEGE OF ARTS AND SCIENCES:	MEN	WOMEN	TOTAL
Class of 1952	124	60	184
Class of 1953	153	91	244
Class of 1954	159	91	250
Class of 1955	. 187	120	307
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Total		362	985
In-state		120	355
Out-state	. 388	242	630
Total	623	362	985
BY CURRICULA:	MEN	WOMEN	TOTAL
Liberal Arts (General)		346	759
Liberal Arts (Pre-dental)		1	34
Liberal Arts (Pre-medical)	. 177	15	192
		······	
Total	623	362	985
		· .	
COLLEGE OF TECHNOLOGY:	MEN	WOMEN	TOTAL.
Class of 1952	. 123	. 11	134
Class of 1953	. 148	22	170
Class of 1954	. 127	24	151
Class of 1955	. 146	31	177
			<u></u>
Total	. 544	88	632
In-state	. 257	25	282
Out-state	. 287	63	350
Total	544	88	632
BY CURRICULA:			
	MEN	WOMEN	TOTAL
Commerce and Economics (Business Administration)		33	336
Commerce and Economics (Secretarial Science)		10	10
Engineering—Civil			60
Engineering—Electrical		•••••	66
Engineering-Management			10
Engineering—Mechanical		1	76
Engineering—Undecided		1	3
Professional Chemistry		7	34
Medical Technology	. 1	36	37
Total	. 544	88 '	632

Enrollment Statistics

COLLEGE OF AGRICULTURE:	MEN	WOMEN	TOTAL
Class of 1952	66	35	101
Class of 1953	73	37	110
Class of 1954	63	39	102
Class of 1955	67	57	124
Total	269	168	437
In-state	139	78	217
Out-state	130	90	220
Total	269	168	437
BY CURRICULA:	MEN	WOMEN	TOTAL
Agriculture, General	205	7	212
Agricultural Engineering	26		26
Pre-forestry	11		11
Pre-veterinary	26	2	28
Home Economics	1	159	160
Tiome Economics			
Total	269	168	437
COLLEGE OF EDUCATION AND NURSING:	MEN	WOMEN	TOTAL
Class of 1952	38	62	100
Class of 1953	37	73	110
Class of 1954	22	104	126
Class of 1955	23	128	151
Total	120	. 367	487
In-state	91	220	311
Out-state	29	147	176
Total	120	367	487
BY CURRICULA:	MEN	WOMEN	TOTAL
Education			
Business	3	14	17
Elementary	2	195	197
Industrial	18		18
Junior High	33	32	65
Music	7	19	26
	57	50	107
Secondary		50	107
Nursing			
Basic		47	47
Education		10	10
Total	120	367	487
UNCLASSIFIED DIVISION:	MEN	WOMEN	TOTAL.
In-state	14	19	33
Out-state	8	6	14
Total	22	25	47
10121	22	23	. "

Register

GRADUATE DIVISION:	MEN	WOMEN	TOTAJ
In-state	43	15	58
Out-state	24	6	30
		·	
Total	67	21	88

COLLEGE OF MEDICINE:	MEN	WOMEN	TOTAL
Class of 1952	3.8		38
Class of 1953	43	3	46
Class of 1954	40	4	44
Class of 1955	53	·	53
Total	174	7	181
In-state	79	1	80
Out-state	95	6	101
Total			
	174	7	181

SCHOOL OF DENTAL HYGIENE:

	MEN	WOMEN	TOTAL
Class of 1952		11	11
Class of 1953		22	22
			and the state of t
Total	*****	33	33
In-state	******	25	25
Out-state		8	8
Total	•••••	33	33

Enrollment Statistics

SUMMARY OF RESIDENT ENROLLMENT

FALL SEMESTER, 1951-1952

THE UNDERGRADUATE COLLEGES:	MEN	WOMEN	TOTAL
College of Arts & Sciences	623	362	985
College of Technology	\$44	88	632
College of Agriculture	269	168	437
College of Education & Nursing	120	367	487
Unclassified Division	22	25	47
Total	1578	1010	2588
The Graduate Division	67	21	88
The College of Medicine	174	7	181
Total	1819	1038	2857
THE UNDERGRADUATE COLLEGE BY CLASSES:	MEN	WOMEN	TOTAL
Class of 1952	351	168	519
Class of 1953	411	223	634
Class of 1954	371	258	629
Class of 1955	423	336	759
Total	1556	985	2541

BREAKDOWN OF UNDERGRADUATE, UNCLASSIFIED, GRADUATE

AND	MEDICAL STUDENTS:	MEN	WOMEN	TOTAL
In-state		858	478	1336
Out-state		961	560	1521
				·
Total	·	1819	1038	2857

In addition to the above regularly enrolled students are the following:

	MEN	WOMEN	TOTAL
Resident Fellows-Medical	28	1	29
Pre-clinic Nurses		104	104
School of Dental Hygiene		33	33
· ·			
Total	28	138	166

Degrees and Prizes

Commencement — Sunday, June 10, 1951

SCHOOL OF DENTAL HYGIENE

Jacqueline Elaine Adler, Burlington Joan Katherine Edwards, White River Junction

Norma Ann Nelson, Burlington Barbara Jean Watts, Barre Loretta Frances White, Hardwick

COLLEGE OF EDUCATION AND NURSING

BACHELORS OF SCIENCE IN NURSING

Margaret Anita Coffin, South Burlington Shirley Mae Severy, Brandon

Adelaide Parent Shepard, Richmond Beverly Sterling Stratton, Barre

BACHELORS OF SCIENCE IN NURSING EDUCATION

[†]Maxine Grace Flint, Washington +Jean Shirley Maltby, Swan Lake, N. Y. Anna Jane Miller, Oreland, Pa.

†Georgia Hay Roberts, West Hartford. Conn.

Priscilla Caouette Savoy, Island Pond Helen Christina Whitehill, Passumpsic

BACHELORS OF SCIENCE IN BUSINESS EDUCATION

Alexander Angelo Ciufo, Ludlow Norman Francis Giroux, St. Albans Joseph Francis McQueen, Groton

Mario Bartalo Pratico, Rutland Robert Charles Stowell, Bellows Falls

BACHELORS OF SCIENCE IN MUSIC EDUCATION

Charlotte Ruth Bostwick, New Milford, Conn.

Mary Elizabeth Bremer, Montpelier

Hubert Stanwood Brooks, Jr., Montpelier Molly Augusta-Katrina Jerger, Ferrisburg

BACHELORS OF SCIENCE IN EDUCATION

Robert Joseph Anderson, Rutland Jane Cullen Arras, New Paltz, N. Y. Mary Elizabeth Aseltine, Williston Katherine Babcock, Auburndale, Mass. John Patrick Barry, Bellows Falls Albert Roy Bingham, Jr., Middlebury Leo Paul Charles Bourgeois, Alburg Mary Ann Browne, Burlington Mary Teresa Champagne, South Hero Emma Mae Chatfield, South Lincoln John Albert Chiuchiolo, Barre Margaret Patricia Clancy, Shelburne Dominic Germain Cote, Rochester, N. J. George Dunmore Cram, Jr., New Bedford, Mass. *Phyllis Dykhuizen Davis, Burlington

Barbara Jean Whitney, Williamstown

Betty Lou Delaire, Underhill Robert Erval Durkee, Rochester *Henrietta Hoyt Ellsworth, Cambridge Donald Otis Erskine, Lyndonville Elouie Farnsworth, East Brookfield Harlan Russell Farnsworth, Burlington Jeanne Lois Farr, Westminster Station Frank Leo Farrell, Irvington, N. J. Glenn Mills Fay, Ipswich, Mass. Margaret Ann Fisher, cum laude, Hardwick. Mass. Lois Evangeline FitzGerald, Milton -William Ernest Grant, Vestal, N. Y. *Bernice Ola Gray, St. Johnsbury Center Irving Howard Grout, East Arlington George Brower Hall, Grand Isle

* As of October 21, 1950. † As of February 17, 1951.

Degrees Awarded

Beverly Mae Heald, St. Albans Eugene Joseph Healey, Worcester, Mass. Donal Alan Hicks, Wilmington Patricia Greenup Hill, Barrington, R. I. David Richard Hinkley, Poughkeepsie, N. Y. John Andrew Holly, Schenectady, N. Y. Barbara Elsa Hughes, Maplewood, N. J. *John Patrick Hurley, Morristown, N. J. Mary Elizabeth Hyde, Windsor *Margaret Puffer Jenne, Richford William Royal Johnson, Lyndonville Barbara Ann Jones, Arlington Ralph Patrick Kehoe, Rutland *Cordelia Frances Keith, Ridgewood, N. J. Ruth Helen Kenner, Burlington Audrey Nina Kerner, Naugatuck, Conn. Frederick Mitchell Laing, Westover, R. I. †Raoul Robert Lapointe, Winooski Harvey Malcolm LaTerre, Wilmington Beth Covert Lohr, Verona, N. J. Susanne More Loizeaux, Plainfield, N. J. †Paul Richard Lucas, Island Pond Claude Henry Magnant, magna cum laude, Franklin Eleanor Wheaton Mahoney, Burlington †Robert Jordan Maroney, Winooski Adeline Ruth McArthur, Morrisville Carolyn Nelbach McClintock, Yonkers, N. Y. Agnes Ellen McKenzie, Burlington Lucille Marjorie Metcalf, East Corinth Aline Bessette Moore, Hardwick

Roy Pollard Munger, Burlington

Guy John Musetti, Rutland

Frank Peter Olsen, Barnet

Barbara Patterson Page, Arlington, Mass. †Barbara Palmer, Rochester

Nicholas James Paris, New Haven, Conn. *Lula A. Percey, South Shaftsbury Frances Emelyne Phillips, Poultney Geraldine Michael Phillips, Rutland John Henry Porter, Bellows Falls Armand Paul Premo, Burlington Willard Quentin Richards, Fair Haven

*William Malcolm Richards, Fair Haven Nada Marie Sanborn, Bellows Falls Katherine Jeanne Smith, Freeport, N. Y.

†Marilyn Edna Stern, New York, N. Y. Edward Francis Streeter, Wilmington

David Alfred Sutherland, Essex Junction

Jean True, Lyndon Center

- Marcia Emma True, Windsor
- Patricia Crane Van Bree, Old Greenwich, Conn.
- Raymond Bruno Vescovi, New London, Conn.
- Paul Kenneth Viens, Burlington
- Alma Laura Warrell, cum laude, East Barnet
- Ruth Arleen Warrell, East Barnet
- Carolyn Ann Wheeeler, Glen Ridge, N. J.
- Marilyn Esther Wood, Windsor
- *William Patterson Wood, Colchester Pauline Esther Woodward, Fairfax

COLLEGE OF AGRICULTURE

BACHELORS OF SCIENCE IN AGRICULTURE

John Franklin Adams, Putney

Richard Davison Aplin, magna cum laude, Waban, Mass.

Chadwick Cummings Arms, Burlington

- David Roy Banta, Riverside, Conn.
- Wilfred Joseph Barcomb, South Burlington

Earl Drown Bassett, Jr., Barre

Robert Carroll Bishop, West Rutland

Lawrence Erwin Bryant, Putney

Robert Frederick Coffin, Newport

- Richard Carl Colella, Rumford, R. I.
- Charles Henry Cooley, Randolph Center
- Donald Burton Dana, North Pomfret

Harold Francis Darling, Groton

Richard Donald Davis, St. Albans William Herbert Davis, Jericho Dale Richard Dawson, Lyndonville Albert Baral Drechsler, Jr., Stow, Mass. Gilbert James Gallup, West Brattleboro Kenneth Stewart Gibson, South Ryegate Raymond Cooper Gleim, Jr., Burlington †Wallace J. Goodman, Floral Park, N. Y. †Paul Edwards Gotthelf, Norwichtown, Conn. †Donald Franklin Green, Jr., Chazy, N. Y.

- Richard Wayland Hardy, Burlington
- Donald Gibson Harris, cum laude, Middlebury
- Homer Blakely Harris, Middlebury

* As of October 21, 1950. † As of February 17, 1951.

Peter Martin Haslam, Barre Ann Livingston Hooper, Garden City, N. Y. Stanley Kellogg James, Jr., Middlebury †Philip Esmond Kelsall, Burlington James Henry Kovach, Seymour, Conn.

Eugene Maurice Lareau, St. Albans

Robert Joseph Lefkowitz, Brooklyn, N. Y.

Herbert Cameron Miesfeldt, Pleasant Valley, N. Y.

Thomas Joseph Murphy, Old Bennington

BACHELORS OF SCIENCE IN AGRICULTURAL ENGINEERING

Roy Elwin Campbell, St. Johnsbury Walter Fowler Carpenter, South Royaltor. Robert McCrillis Carter, III, Burlington †Wendell Charles Cook, Rutland John Farwell Harwood, Manchester Center

Donald Harold Plumb, Springfield

Leighton Calvin Pratt, Worcester

John Franklin Stephenson, Lowell

*David Dickens Webster, Irasburg Mervyn Farnham Willey, Littleton, N. H.

Sherman Bowen Wright, Sheffield

Uno Teemant, Burlington

Herbert Francis Shipman, Waterville Russell Willard Smith, Cuttingsville

Wallace Eugene Reed, South Burlington

Francis Alden Thomson, Ancram, N. Y.

Robert Howard Hubbell, Enosburg Falls

BACHELORS OF SCIENCE IN HOME ECONOMICS

Emily Rose Allard, Jacksonville Marjorie Ann Allard, Rutland Gertrude Jean Bohannon, Montpelier Ann Lucille Burroughs, Pittsford Joan Prince Coffman, Burlington Elizabeth Ann Davison, Morrisville Marjorie Ann Durkee, South Royalton Alexandra Cecelia Dzikielewski, Mineola, N. Y. Anita Belle Elliott, Schenectady, N. Y. Mary Ellen Fuller, Burlington Evelyn Ann Glysson, Fair Haven Jean Walrath Hageman, Verona, N. J. Jean Susan Hard, Burlington Mrs. Josephine Buck Hayslip, Burlington

Ada Howard Hyzer, South Royalton

Elizabeth Ann Kerin, Burlington Mrs. Elvy Hubbard Kidder, Burlington Elizabeth Ann Lawrence, Burlington Marjorie Caroline Leach, Pawlet Mrs. Hester Burroughs Lehnert, Hancock Lucille Orry Lovejoy, Springfield Valerie Jean Meyer, Port Washington, N. Y. Hester Martha Mudgett, Essex Junction Olive Ella Pratt, Gaysville Janet Ruby Putnam, Bridgewater Muriel Christine Spooner, Franklin Ruth Charlotte Steele, New Bedford,

Constance Adams Stone, Burlington

Mass.

COLLEGE OF TECHNOLOGY

BACHELORS OF SCIENCE IN CHEMISTRY

Vincent Paul Catto, magna cum laude, George Counos, St. Albans Barre

BACHELORS OF SCIENCE IN COMMERCE AND ECONOMICS

Joan Banghart, Douglaston, L. I., N. Y. Henry Joseph Battles, Rutland Burke William Bigwood, West Hartford,

Conn. Samuel Saul Bloomberg, magna cum laude, Burlington

Albert Francis Bonazoli, Jr., Newton Centre, Mass. Richard Clayton Bowles, Bradford Bruce Baxter Bowman, Orleans David Drummond Boyd, Jamaica Plain, Mass. Richard Walter Brockway, Quechee John Lewis Burrows, Brattleboro Mark Melvin Byron, Jersey City, N. J. Thomas Lewis Cheetham, Dedham, Mass.

* As of October 21, 1950. + As of February 17, 1951.

Degrees Awarded

- Eugenio Dante Chiaradia, South Ryegate
- Heman Andrew Chittenden, Hartford

Robert James Chittick, Waterbury

- Kaare George Christian, Fairhaven, Mass.
- Richard Francis Cloutier, Lawrence, Mass.
- Russell David Coburn, West Fairlee
- Basil Jay Cook, Shoreham
- Charles Harold Cookson, Fairlee
- Glenn Kitchell Coutts, Morristown, N. J.
- *Vernon Monroe Cram, Bridgewater
- Freeman Keith Creasey, Jr., Forestville, Conn.
- Elwin Newton Davis, Hartford, Conn.
- Jerrold Stanton Dix, Brattleboro
- Clifford Amos Eaton, South Royalton
- Merritt Lewis Edson, Rutland
- Alan Robert Elrick, St. Albans
- Sibley Reginald Esden, White River Junction
- Joseph Cyril Ferland, Montpelier
- Stanley James Fitts, Barre
- Chester Albert Fogg, White River Junction
- Graham Payn Franks, Delmar, N. Y.
- *Kenneth Franklin Gardner, Bailey Island, Me.
- *Allan James Greenough, Sheldon Springs *Howard Francis Gregory, Springfield
- †Norma Jean Shangraw Griffin (Mrs.), St. Albans
- Howard Gustav Haddigan, Elmont, N. Y. Philip Mitchell Hayden, Westfield, N. J. David Ramsay Hill, Malverne, N. Y. Stanley Joseph Hrydziusko, Windsor William Henry Kanouse, Mendham, N. J. John William Kenyon, Schenectady, N. Y. Gerald Kerstein, Sharon, Mass. Paul Arden Kilty, Stratford, Conn. Paul James Klimm, Teaneck, N. J. Everett Robert Kohberger, Rockville Centre, N. Y. *Frank Howard Lackey, Montpelier
- Frances Louise Landusky, South Hero Melvin Edward Lazar, Brooklyn, N. Y. Arthur John McCann, Lyndonville Robert Joseph McClay, Windsor Sam Vincent Mace, Ferrisburg
- Frank Bosworth Mapes, Swanton

- Leonard Miller, Burlington
- Joseph Anthony Mongiello, Port Washington, N. Y.
- Robert Edwin Montgomery, New York, N. Y.
- *Harold Laurance Moore, Derby Line
- James Francis Moriarty, Bellows Falls William Henry Morrison, Springfield, Mass.
- †Reginald Earl Myers, Winooski
- †Wymond Shedd Newton, St. Albans
- Thomas Henry O'Neil, Leominster, Mass. Frank Chester Pandolfe, Waterbury, Conn.
- John Ralton Petty, Ballardvale, Mass.
- Robert Thompson Platka, Jr., Burlington
- Dorothy Frances Powers, Pittsford
- Robert Allan Powers, Fredonia, N. Y.
- Albert Arthur Prevo, Jr., Windsor
- George Eric Pucher, Hamden, Conn.
- Lee Sherman Ramsey, Jr., Burlington
- Roy Vincent Raymond, Jr., Elsmere, N. Y.
- Homer Francis Rocheleau, St. Albans
- Howard Leslie Rothchild, Burlington
- Margery Lou Salm, Westfield, N. J.
- †Linus Robert Sargent, Chittenden
- *Ugo Joseph Sartorelli, Barre
- Richard Savoy, Island Pond
- George Henry Schofield, III, South Orange, N. J.
- William Joseph Shorter, Elmsford, N. Y.
- Jean Alison Shufeldt, Bellows Falls
- Kenneth Robert Sikora, Burlington
- Alan Herbert Smith, Burlington
- Thomas Howard Snelson, Jr., South Norwalk, Conn.
- †Theodore Smith Stoughton, Poultney
- Mabel Hilda Sullivan, Bloomfield, N. J.
- *Robert Donald Trudell, Burlington
- Robert Joseph Vachon, Bennington
- Francis Stephen Wallett, Rutland
- Stewart Putnam Washburn, summa cum laude, Windsor
- Glenn Alva Wheelock, Springfield
- Charles Edward Wiley, Rutland
- †Glenn Hudson Woods, Jr., Bridgewater

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

George Nichols Andrews, Ipswich, Mass. *Walter Michael Babich, Witherbee, N. Y. Gordon James Ballard, Rutland Robert Cota Barrows, North Adams, Mass.

* As of October 21, 1950. + As of February 17, 1951.

Norman Ashley Bishop, Montpelier

David Winfield Claypoole, Rutland

Henry Peter DelBianco, Center Rutland John Dean Hale, St. Johnsbury

* James Edward Houghton, East Arlington John Tremayne Ichter, West Nanticoke, Pa.

Henry David Levine, New London, Conn. Glendon Raymond Mayo, Springfield,

Mass.

BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

John Charles Anzalone, Rutland

William Calvin Bremner, Great Neck, N. Y.

- Norman Fossett Brunt, Dedham, Mass.
- Stanley Francis Chmielowiec, West Rutland
- Donald Peterson Clark, Rutland
- Donald Alfred Duclos, Chicopee, Mass.

Alvin William Edson, cum laude, Rutland

George Winston Ellis, South Royalton

Charles Emery Farnham, Buffalo, N. Y.

- Elio Joseph Filippo, Rutland
- Richard Leslie Gulatsi, Westport, N. Y.
- Howard Carleton Hamilton, West Brattleboro

Charles William Kehoe, Rutherford, N. J.

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

Paul Lambert Abbey, Burlington

- George Henry Arata, East Rutherford, N. J.
- Robert Royce Aseltine, Williston
- Robert Elmo Barrie, Ridgewood, N. J.

Robert Charles Barrows, Vergennes

†Karnig Aram Berberian, Milton, Mass.

Clarence Harris Brower, Jr., Lenox, Mass. James Wilber Brown, Pawlet

John Raymond Crowe, Sheldon Springs

- *Edmund Francis Draminski, New London, Conn.
- Donald Harry Faulkner, South Barre Alan Collins Fogg, St. Albans
- Myron Floyd Fuller, Springfield
- *Frank Braneslov Gabranski, Cavendish
- Melvin George Gordon, Midland Park, N. J.

Edward Oscar Hall, Burlington

Fred Atwood Merrihew, Plattsburg, N. Y. Robert Warren Moore, Burlington Robert Edgar Morrison, Milford, Conn.

[†]Bernard Patrick Murphy, Burlington Erich Henry Rutscheidt, Brooklyn, N. Y.

- *Gerard Rudolph Stiller, St. James, N. Y. William Morse Valencia, Holyoke, Mass.
- *Edmond Charles White, Freehold, N. J.

*Henry Bernard Zywiak, Utica, N. Y.

Robert Lathrop Kinney, East Aurora, N. Y.

Byron Henry Kretzman, Hempstead Gardens, N. Y.

Charles Leroy Layton, Millville, N. J.

Roger Ernest LeDuc, Pittsford

Sidney Levine, Port Chester, N. Y.

- Richard Fred McFadden, Reading
- Robert Robare O'Hare, North Adams, Mass.
- Paul Ernest Pitts, Waterbury, Conn.
- Forrest Carlton Titcomb, Keene, N. H.

Charles Warren Wallace, Millinocket, Me.

David Alanson Wetherby, III, Wallingford

Donald Morton Wood, Rutland

Frederick Dudley Havens, Burlington Arthur Ross Hill, Jr., East Brookfield Richard Alvin Jimmo, Milton Robert Ellis Kennison, St. Johnsbury Edward John Leach, Burlington

- Keith Alexander Magalsky, Tunbridge
- *George Charles Nicholson, Teaneck, N. J. Richard Holland Osgood, Saxtons River Carmine Albert Pacca, Rutland Ralph Webster Preston, Lowell

- †Robert Letson Roy, Jr., Atlanta, Ga. William Frederick Schacht, Fanwood, N. J.
- Bernard Louis Schulman, cum laude, Brooklyn, N. Y.
- Milton Anthony Silveira, Mattapoisett, Mass.

Richard Carlton Wheeler, Kingston, Mass. Robert Barnett Zile, Montpelier

* As of October 21, 1950. † As of February 17, 1951.

Degrees Awarded

COLLEGE OF ARTS AND SCIENCES

BACHELORS OF ARTS

- Charles Graffam Adams, Jr., Lewiston, Me.
- Janet Doris Alexander, Irasburg
- Barbara Jean Altrock, Schenectady, N. Y.
- Byron Howe Angell, Millbury, Mass.
- Gordon Douglas Atkinson, Jr., Malden, Mass.
- Martha Louise Atwood, Delmar, N. Y. Jean Barbara Austin, Brattleboro
- Anita Bagdikian, Bath, Me.
- Barbara Newman Beal, Burlington
- Alfred Joseph Beauchamp, Rutland
- Kenneth Wendell Belding, Northfield
- Keinietti wenden belding, ivortindeta
- Evelyn Gertrude Bell, New York, N. Y.
- Lucille Marion Benedict, St. Johnsbury
- Barbara Carle Benn, Auburn, N. Y.
- Marcel Benson, St. Albans
- Stephen Alexander Berman, New Britain, Conn.
- Charles Graham Berwind, Paoili, Pa. Robert Allen Blackmore, Montpelier
- Arthur Robinson Bliss, Blue Hill, Me.
- Lucille C. Boosin, Woodmere, N. Y.
- Edward Abraham Boyarsky, Burlington Paul Bree Boyce, Poultney
- Brendan James Boylan, Scarsdale, N. Y. Paul Carmody Brough, Castleton
- Stanley Leonard Brown, Burlington
- †Mildred Lorraine Joslyn Burbank, Waits
 - field
- Eugene Burman, Hyannis, Mass.
- Stanley Livingston Burns, Jr., cum laude, Proctor
- William Francis Butters, Norwood, Mass.
- Polly Warren Buttrick, Burlington
- Richard Currier Campbell, Montpelier
- Milton Caplan, St. Johnsbury
- James Edward Carter, Great Neck, N. Y.
- James Elmer Carter, Burlington
- Joan Cassista, Chester
- Harold Braman Chase, Jr., Shrewsbury, Mass.
- Bertram J. Christmas, Jr., Charlestown, Mass.
- Roger John Ciufo, Ludlow
- Converse Dilworth Clowse, Richmond
- Ruth Child Coburn, West Fairlee
- Robert Francis Comar, Bennington
- Carolyn May Cross, magna cum laude, Montclair, N. J.
- † As of February 17, 1951.

June Yale Crouter, Westport, Conn. John Peter Cunavelis, St. Johnsbury Shirley Ann Dennis, St. Albans John Albert Densmore, Burlington William Stanley Devino, Burlington John Howard Doherty, Brookline, Mass. Lois Donnellan, Old Greenwich, Conn. George Albert Donovan, North Springfield Joyce Evangeline Eastwood, Danvers, Mass.

- Roberta Mary Frances Eckelberry, Upper Montclair, N. J.
- Daniel Davis Erhardt, Coram, N. Y.
- Joan Katherine Ericson, Brattleboro
- William Russell Errett, Chatham, Pa.
- Marilyn Dorothy Fairman, Springfield
- William Cochrane Farrell, Westminster
- Norman Abraham Fieber, Brooklyn, N. Y.
- Paul Joseph Fitzgerald, Bellows Falls
- †Warren Fong, Baldwin, N. Y. Robert Edward Foss, *cum laude*, Island Pond
- Wyatt Ray Fox, Cambridge
- †Phyllis Elsie Fraser, Montpelier Robert Eugene Frederick, Hanover, N. H. James Phillip Frink, *cum laude*, North
- Haverhill, N. H. †Walter Sprague Frost, Jr., Burlington
- Keith Emeric Galli, Staten Island, N. Y. Joan Lee Ganow, Caldwell, N. J.
- William Lawrence Gardner, Jr., Burlington
- Michael Harry Gianni, Waterbury, Conn.
- Shirley Laurine Gleason, Chester, Mass.
- Pauline Wilbur Goodrich, Chester Depot
- Cynthia Brooks Goss, St. Johnsbury

Carol Elizabeth Greenwood, St. Albans

- Eugene Franklin Griffin, St. Albans
- Paul Louis Hackel, Rutland
- Norma Caroline Hale, cum laude, Elmwood, Conn.
- Maureen Ann Haney, Montclair, N. J.
- Raymond Gates Harlow, Shrewsbury, Mass.
- Lindley Stearns Hartwell, Burlington
- Alden Jenkins Hay, Longmeadow, Mass.
- Barbara Jane Hearn, Hempstead, N. Y.
- Manfred Karl Hegemann, Cambridge, Mass.
- Sylvia Frida Heininger, Burlington

- Huddee Zwick Herrick, Burlington
- Robert Eugene Herriott, Tiverton, R. I.
- Janet Hofstadter, New Rochelle, N. Y.
- Sylvia Ruth Hoisington, Springfield
- Joseph John Hughes, Jr., Springfield
- Leon Clinton Hull, Jr., cum laude, Newport, R. I.
- Richard Stilphen Hungerford, St. Albans
- Alfred William Hurley, North Adams, Mass.
- Robert Charles Ianni, Rutland
- David Boardman Jennings, Burlington
- Elizabeth Mae Johanson, Melrose, Mass.
- Kenneth Merryman Johnson, Baltimore, Md.
- Leo Francis Johnson, *cum laude*, White River Junction
- Lorraine Elizabeth Bushey Johnson, cum laude, Milton
- *Eugene Wallace Kalkin, Forest Hills, N. Y.
- Edwin Donald Kaufmann, Saratoga Springs, N. Y.
- Leroy Leighton Keith, Underhill
- Frank Emery Kelley, Burlington
- †Paul Vincent Kelly, West Montclair, N. J. Blaise Xydias Kent, Baltimore, Md. †Thomas Henry Kent, North Bennington
- Mary Frances Keough, North Bennington Chester Sawyer Ketcham, Salisbury Rollin Grant Keyes, Ottawa, Ontario Lawrence Edward Kimball, St. Johnsbury Douglas Russell Knab, Ellenville, N. Y. Stanley Augustus Knapp, Brookline Francis John LaCava, Fall River, Mass. Burton Kenneth Landman, Jamaica Frank Gerard Landry, St. Johnsbury *Wallace David Lash, Burlington Kendrick Roger Lawrence, Moscow Arthur Wilbur Leavitt, Lynn, Mass. Donald Martin Levine, Ayer, Mass. Marshall Gene London, Burlington Alvah Hobart Low, Vergennes Dalton Haskett McBride, Island Pond William Henry McCarthy, Jr., Burlington Robert William McCauley, Burlington Lester Davis McEwing, Port Jefferson,
 - N.Y.
- Nancy Ann McKee, Montpelier
- Merrill Francis McKenna, Montpelier
- Edward Douglas McSweeney, Jr., Burlington
- Maud Louise Mason, Highland Park, N. J.
- * As of October 21, 1950. + As of February 17, 1951.

- Edward Kent Mathews, Wellesley Hills, Mass.
- Sheldon Claremore Meaker, Shelburne
- Michael Nicholas Misogianes, Haverhill, Mass.
- Dagmar Berta Frieda Moellenkamp, Berlin, Germany
- John Padelford Moore, Woodstock
- Franklin William Moran, Jericho
- Mervyn Taft Morgan, Burlington
- Petrea Ann Morrill, Morrisville
- Harmie Norma Taylor Morrison, Milton
- John Herbert Morrison, Toronto, Ontario
- †John Hughes Morton, Portland, Me.
- *Alfred Gustave Mueller, Newport, R. I. Evelyn Theresa Mueller, Norwalk, Conn.
- *William Martin Mulheron, Jr., Centerville, Mass.
- William Thomas Murray, Jr., Montpelier David Sowle Newhall, cum laude, Burlington
- Eleanor Frances Newton, cum laude, North Ferrisburg
- Molly Eleanor Nichols, Randolph Center
- Margaret Ellen O'Day, Hydeville
- *Malcolm Skeels Parker, North Hero
- Michael Peck, Jr., Burlington
- Harry Clifton Perrigo, Barre
- Salvatore Anthony Petrillo, Fall River, Mass.
- Samuel Winslow Pierce, Hinsdale, Mass.
- Donald Lorenzo Poitras, Barre
- Suzanne Pooley, Burlington
- James Burtt Porter, Winooski
- Dorothy Lois Post, Burlington
- Barbara Ruth Preston, Burlington
- Helmut Radon, cum laude, Wiesbaden, Germany
- Francis Patrick Reidy, Worcester, Mass.
- Dorothy Ione Rice, Newport
- Ross Richardson Roberts, Rockville, Conn.
- John Harold Rood, Los Angeles, Calif.
- Marshall Tomlinson Sabens, Essex Junction
- *Robert Allan St. Gelais, Burlington
- Elmer Corliss Sanborn, Bellows Falls
- Allen William Sawyer, Morrisville
- Ingeborg Schmidt-Baeumler, New York, N. Y.
- Samuel Roger Schoenfeld, Hewlett, N. Y. Elisabeth Augusta Schoeppe, Regensburg,
- Germany
- Charles Good Schurman, Jr., Newport

.

Degrees Awarded

Bernard Harold Shapiro, Springfield, Mass. Douglas Parker Shaw, Manchester Center Barbara Joyce Shimmin, Melrose, Mass. Helmut Michael Sihler, magna cum laude, Klagenfort, Austria Richard Thomas Skinger, Alburg Springs Arthur Lewis Smith, Hardwick Charlotte Jean Smith, Rutland Laura Mindick Smith, Worcester, Mass. Dorothy Agnes Squires, East Arlington

Bruce Marvin Stargatt, New Rochelle, N. Y.

Janet Stephens, South Orange, N. J. Paul Giles Stevens, Gardner, Mass. Shirley Jane Strong, Craftsbury Common *Robert Whalen Sullivan, Queens Village,

N. Y. M. Stanley Susskind, Bayonne, N. J.

Anita Moore Swasey, Batavia, N. Y.

Afons Mello Tavares, Jr., Lowell, Mass.

Esther Hannah Thomas, Burlington

Suzette Levine Thomas, Rockville Centre, N. Y.

Caroline Louise Thorell, Cranston, R. I.

BACHELORS OF SCIENCE

Lucien Joseph Cote, Lyndonville Sarita Goodman, Brooklyn, N. Y. Bernard Adolphus Gouchoe, Rutland Edmund Brown McMahon, Burlington Peter John Palmisano, Barre

BACHELORS OF SCIENCE IN MEDICAL TECHNOLOGY

Edward Frederick Merrill, Boltonville

John Dominic Tomasi, Jr., Barre

Frank Randolph Toscano, Fort Lee, N. J.

Harriet Lyne Towne, Burlington

Joseph Carmine Vaccaro, Stamford, Conn. Lawrence Edwin Van Benthuysen, Montour Falls, N. Y.

Patricia Ann Vance, Brooklyn, N. Y.

+Donald Stanley Vaughan, Westport, N. Y.

Frederic Weinberg, Springfield, Mass.

Marilyn Lois Wheeler, Bellows Falls

Raymond Hugh Wheelock, Barre

Harold Clinton White, Jr., New London, Conn.

Ada Wilber, Cranston, R. I.

Marion Elizabeth Wiley, South Londonderry

Joanne Rae Williams, Londonderry

Lloyd Ward Williams, Schenectady, N. Y. Morton Manuel Winston, Forest Hills,

N. Y.

Frank Elbert Woodcock, Plainfield

Valery Sidon Worth, Nutley, N. J. Harris Alfred Yandow, North Ferrisburg

Myrtle Irene Youngs, Pittsfield, Mass.

Leo Richard Parnes, Brookline, Mass. *Frederick Edward Pratt, North Clarendon Richard Bonner Presbrey, Waban, Mass. John Peter Tampas, Burlington

Janet Mary Williams, Brandon

ADVANCED DEGREES

MASTERS OF EDUCATION

David McNeil Bell, B.A. (UVM), 1950, Alburg

Dorothy Jean Brigham, B.A. (Syracuse), 1947, Arlington

* Jerome Bullis, B.S. (UVM), 1930, Ludlow

.Virginia Lenore Bunker, B.A. (University of Maryland), 1950, Baltimore, Md.

Richard Harlow Caswell, A.B. (Middlebury), 1948, Middlebury

*Russell Drake Chase, B.S. in Ed. (UVM), 1938, Rutland

Ralph Merton Clark, Jr., B.A. (UVM), 1950, Stowe

Gordon Sullivan Cochran, B.S. in M.E. (UVM), 1948, Chelmsford, Mass.

Vincent Francis Connolly, B.S. in Ed. (Holy Cross), 1949, Worcester, Mass.

Malcolm Cooper, B.A. (Brooklyn College), 1950, Brooklyn, N. Y.

*Beryl Cheney Cushman, B.S. in Ed. (UVM), 1945, Ithaca, N. Y.

* As of October 21, 1950. † As of February 17, 1951.

William Anthony Dempsey, Jr., B.S. in Ed. (UVM), 1950, Burlington

- *Ann De Nicola, B.Ed. (Keene Teachers College), 1949, Nashua, N. H.
- Robert Ervien, 3d, B.A. (Swarthmore), 1950, Assembly Point on Lake George, N. Y.
- Jeanne Margaret Euler, B.S. (Tufts), 1943, West Orange, N. J.
- William Henry Fitzgerald, B.S. (St. Michael's College), 1947, Barre
- Charles Robert Foote, B.E.E. (Rensselaer), 1950, Middlebury

Elizabeth Ann Garrity, B.A. (Notre Dame of Maryland), 1950, Burlington

- James Arthur Garwood, B.S. in Ed. (UVM), 1949, Burlington
- John Pollard Gates, B.S. in Ed. (Rutgers), 1933, White River Junction
- Maurice Gerard Gendron, B.S. in C. & E. (UVM), 1950, Burlington
- Clayton James Harmon, B.A. (UVM), 1950, St. Albans
- *Vernon Joseph Hart, B.A. (St. Michael's College), 1941, Hinesburg
- *Robert Erskine Hasseltine, A.B. (University of Michigan), 1942, Bristol
- *Ruth Janet Hasseltine, Ph.B. (UVM), 1931, Bristol
- *Chesley Peck Horton, B.S. (UVM), 1939, Middletown Springs
- †Thomas Robert Jurras, B.S. in Ed. (University of Alabama), 1936, White River Junction
- *Perry Judson Kinsley, Jr., B.S. in Ed. (UVM), Underhill
- *Lucien Ernest Lambert, B.S. in Ed. (UVM), 1950, Crown Point, N. Y.
- Jane Katherine Larner, B.A. (Notre Dame of Maryland), 1950, Burlington
- Robert Delano Lull, Jr., B.A. (Dartmouth), 1935, Shelburne
- * Joseph Rafter Mallard, A.B. (Bates), 1937, Canaan
- *Peter Saltonstall Mallett, B.A. (UVM), 1947, St. Albans John Bronson Martin, B.S. (Tufts), 1949, Milton
- *Ruth Davis Nims. A.B. (Ohio Wesleyan), 1927, Montpelier
- *Everett Paul Payne, B.A. (UVM), 1949, Burlington

Cedric Errol Pierce, Jr., B.A. (UVM), 1950, St. Johnsbury

- Mary Louise Pratt, B.S. (UVM), 1933, Burlington
- Luton Raymond Reed, B.A. (UVM), 1949, Burlington
- Marvin Saltzman, B.A. (UVM), 1950, Brooklyn, N. Y. *Alson Cleveland Schoff, B.S. (John Brown University), 1943, Newport Angelo Setien, B.A. (Richmond College), 1948, Barre Andrew Jackson Soule, Jr., B.S. in Ed. (UVM), 1950, Sheldon Alden Delbert Spaulding, B.S. in Ed. (UVM), 1950, Rutland
- *Daisy Eva Stewart, Ph.B. (UVM), 1917, Thompson, Conn.
- *Ernest Raymond Stockwell, B.S. in Ed. (UVM), 1948, Burlington
- Norman Kenneth Strassburg, B.S. in Ed. (UVM), 1941, North Tonawanda, N. Y.
- †Raymond Bromley Talbert, B.S. (UVM), 1933, Essex Junction
- *Alice Hayes Tranberry, B.A. (UVM), 1926, West Hartford, Conn.
- Alden Campbell Utton, B.S. (Middlebury), 1931, White River Junction
- Bernard Edmond Villemaire, B.A. (UVM), 1949, Burlington
- Dave Augustus Virzi, A.B. (City College of New York), 1938, Plattsburg, N. Y.
- *Ruth Thompson Visscher, A.B. (University of Michigan), 1905, Carmel, N. Y.

MASTERS OF ARTS IN TEACHING

*Wilma Cushman, A.B. (Middlebury), 1929, Lincoln John Crosby Emerson, Jr., B.S. in Ed. (UVM), 1949, Coventry Walter William Hunsinger, B.S. in Ed. (UVM), 1950, Burlington †Harry Miele, B.A. (UVM), 1949, Randolph

Joseph Papandrea, B.S. (UVM), 1950, Barre

* As of October 21, 1950. † As of February 17, 1951.

Degrees Awarded

MASTERS OF ARTS

ENGLISH

*Gladys LaFlamme Colburn, Ph.B. (UVM), 1933, Burlington

Thesis: "The Time Is Noon"-Wystan Hugh Auden in Search of a Tradition

George Richard Hopwood, B.Ed. (Keene Teachers College), 1939, Burlington Thesis: An Experiment in a Platonic Society: The Perfectionist Communities of John Humphrey Noyes

GERMAN

Maynard Joseph North, B.A. (UVM), 1950, Port Huron, Mich.

Thesis: Moral Detachment in the Naturalistic Tragedies of Gerhart Hauptmann

HISTORY

Josephine Mathilde Huse, A.B. (Smith), 1947, Burlington

Thesis: The Psychology of Appeasement: An Analysis of Great Britain's Policy Toward Germany During the Period Before the Second World War

Marcus Allen McCorison, A.B. (Ripon), 1950, Winooski Thesis: A Checklist of Vermont Imprints 1800-1810

MUSIC

*Esther Clare Cook, B.S. in Mus. Ed. (UVM), 1947, St. Johnsbury *Thesis*: The Development of the Italian Concerto of the Baroque Era and Its Influence on the Concertos of Bach

ROMANCE LANGUAGES

Malcolm Skeels Parker, B.A. (UVM), 1950, North Hero Thesis: The Impact of Two World Wars on the French Novel

MASTERS OF SCIENCE

AGRICULTURAL ECONOMICS

Frank Livak, B.S. in Ag. (UVM), 1941, Richmond

Thesis: An Attempt to Develop a Formula to Measure the Value of the Dairy Farm Operator's Services on His Farm

AGRONOMY

Winston Arthur Way, B.S. (New York State College of Forestry), 1950, North Hero Thesis: Base-exchange Properties of Vermont Soils

ANIMAL AND DAIRY HUSBANDRY

*John Murray Elliot, B.S. (McDonald), 1949, Howick, Quebec Thesis: Vitamin A Supplementation of Calves

ANIMAL PATHOLOGY

*Wesson Dudley Bolton, D.V.M. (Michigan State College), 1944, Cabot Thesis: A Survey of the Causes of Impaired Fertility in Native Dairy Cattle

* As of October 21, 1950.

Register

BOTANY

John Kingsley Pollard, Jr., A.B. (University of Massachusetts), 1947, Shelburne Thesis: The Organic Nitrogen Components in Maple Sap

CHEMISTRY

William Alexander DeMeester, A.B. (Hope), 1949, Paterson, N. J.

Thesis: Attempted Preparation of Some Monosubstituted Guanidines from the 2-Aminopicolines

Stephen Gates, B.S. (UVM), 1949, Wellesley Hills, Mass. Thesis: The Naphthyl and Tetrahydronaphthyl Monosubstituted Guanidines

Richard Lee Hoebeke, A.B. (Hope College), 1949, Sodus, N. Y. Thesis: The Schmidt Reaction on Isomeric Acetylanthracenes

Wasil Plaskonos, B.S. (Albright College), 1949, Hartford, Conn. Thesis: Heat Capacity of Nickel Oxide at High Temperatures

HOME ECONOMICS

*Ruth Genevieve Johnston, B.S. (University of Illinois), 1947, Buckley, Ill. Thesis: Food Management in 365 Vermont Farm Homes

MECHANICAL ENGINEERING

Floyd Robert Johnson, B.S. in M.E. (Michigan College of Mining and Technology), 1941, Burlington

Thesis: The Design, Construction and Calibration of a Small Wind Tunnel Balance

Morris Wellesley Kenfield, B.S. in M.E. (UVM), 1943, Burlington Thesis: The Design and Construction of a Bootstrap Gas Turbine (Joint project)

Gilbert Adams Marshall, B.S. in M.E. (Northeastern University), 1943, Essex Junction Thesis: The Design and Construction of and Experiments with a Chronograph

Charles Mair Thomson, Jr., B.S. in E.E. (UVM), 1947, Burlington

Thesis: The Design and Construction of a Bootstrap Gas Turbine (Joint project)

MICROBIOLOGY

Horace John Daniels, B.A. (UVM), 1949, Burlington

Thesis: Aerobic Spore-forming Bacteria as a Source of Antibiotics

PHYSICS

Dean Charles Severance, B.S. in M.E. (UVM), 1944, Chester

Thesis: Magnetization of Iron Magnetic Circuit Theory and Demagnetizing Effect of Free Poles Theory

PHYSIOLOGY

Richard Emile Bouchard, M.D. (UVM), 1949, Bridgeport, Conn.

Thesis: Studies on the Pulse Wave Velocity in Man Using Recently Developed Rapidly Responding Instruments

* As of October 21, 1950.

Degrees Awarded

THE COLLEGE OF MEDICINE

DOCTORS OF MEDICINE

- Lawrence Bernard Ahrens, B.S., Burlington
- Anthony Moymore Alberico, B.S., Burlington
- Deal Tabor Aseltine, Jr., B.S., Essex Junction
- Laurence Havens Ballou, A.B., Chester
- Ernest Stanley Barash, A.B., Brooklyn, N. Y.

Frank Lewis Bartlett, B.S., Burlington

- Edwin Pitcher Bassett, Rutland
- James Paul Burke, B.S., Barre
- Frances Phillips Conklin, B.A., cum laude, Milford, Pa.
- Jack Wallace Conklin, A.B., Providence, R. I.
- Virginia Henrietta Donaldson, A.B., Washington, D. C.
- James Edgar Downs, Cadyville, N. Y.
- John William Durkin, Jr., Poultney
- Richard Milton Esser, A.B., Mt. Vernon, N. Y.
- Fred Arthur Harrington, B.S., Rutland
- John Robert Heckman, Castleton
- Philip James Hincks, B.S., Middlebury
- Edward William Jenkins, B.S., Burlington Allen Tewksbury Jones, B.S. in Ed., Morrisville
- Aristides Demetrios Julius, Brooklyn, N. Y.

- Edward Albert Kamens, A.B., cum laude, Bridgeport, Conn.
- Reginald Frederick Krause, Ph.D., cum laude, Burlington
- John Clifford Lantman, B.S., Hinesburg
- Murdo Glenn MacDonald, B.S., cum laude, South Ryegate
- Annora Harris McGarry, South Shaftsbury
- Thomas Maxwell McGarry, B.S., Rutland Fred Leon Nelson, Jr., Ava, Mo.
- James Thomas Riley, Burlington
- Henry Thomas Rondeau, A.B., North Brookfield, Mass.
- Charles Franklyn Ryan, B.S., Vergennes
- Eric George Schweiger, New York, N. Y.
- Harley Grupe Shepard, B.S., South Burlington
- William Judah Sohn, A.B., Brooklyn, N. Y.
- Robert Kirk Ward, B.S., St. Albans
- Henry Wasserman, A.B., cum laude, Yonkers, N. Y.
- Seymour Paul Weissman, B.S., Budd Lake, N. J.
- Edward Kenneth Welch, B.S., Hyde Park, Mass.
- Keith Clinton Wold, B.S., St. Paul, Minn.

DEGREES HONORIS CAUSA

Cyril George Veinott, Lima, O., Doctor of Engineering Electra Havemeyer Webb, Shelburne, Doctor of Humane Letters Lee E. Emerson, Barton, Doctor of Laws Arthur Henry Packard, Jericho, Doctor of Laws Cleon Arthur Perkins, Rutland, Doctor of Laws David Elton Trueblood, Earlham, Ind., Doctor of Literature Adrian Emery Holmes, Burlington, Master of Arts

SPECIAL HONORS

MATHEMATICS

- James Phillip Frink, '51
 - Thesis: Properties of Functions of One Variable Depending Upon the Limit Concept

Molly Eleanor Nichols, '51

Thesis: The Equivalence of Certain Definitions of the Measure of Bounded Linear Point Sets

Register

COMMISSIONS OF SECOND LIEUTENANT IN THE **REGULAR ARMY OF THE UNITED STATES**

#George Nichols Andrews, RA, Corps of Engineers

‡Michael Peck, Jr., RA, Infantry [‡]Donald Morton Wood, RA, Signal Corps

Donald Harry Faulkner, RA, Ordnance Corps

COMMISSIONS OF SECOND LIEUTENANT IN THE ORGANIZED RESERVE CORPS, UNITED STATES ARMY RESERVE

Paul Lambert Abbey, Ordnance Corps Byron Howe Angell, Infantry **‡Bruce Baxter Bowman**, Infantry David Drummond Boyd, Infantry Kaare George Christian, Infantry Russell David Coburn, Infantry Robert Francis Comar, Infantry Charles Henry Cooley, Infantry Harold Francis Darling, Infantry Henry Peter DelBianco, Corps of Engineers John Albert Densmore, Infantry Robert Erval Durkee, Infantry Sibley Reginald Esden, Infantry Norman Abraham Fieber, Infantry *Michael Harry Gianni, Medical Service Corps Lindley Stearns Hartwell, Infantry *‡Jack Farwell Harwood, Infantry* ‡Peter Martin Haslam, Quartermaster Corps ‡Arthur Ross Hill, Infantry David Richard Hinkley, Infantry Robert Charles Ianni, Infantry David Boardman Jennings, Infantry *Frank Emery Kelley, Infantry Stanley Augustus Knapp, Infantry James Henry Kovach, Quartermaster Corps ± Distinguished Military Graduates.

- #Edward Kent Mathews, Infantry William Henry McCarthy, Jr., Infantry Fred Atwood Merrihew, Corps of Engi-
- neers
- Herbert Cameron Miesfeldt, Infantry
- ‡Robert Warren Moore, Infantry
- #Mervyn Taft Morgan, Infantry
- James Burtt Porter, Infantry
- #Mario Bartalo Pratico, Quartermaster Corps
- *Erich Henry Rutscheidt, Corps of Engineers
 - William Frederick Schacht, Ordnance Corps
- Douglas Parker Shaw, Infantry
- Milton Anthony Silveira, Ordnance Corps Arthur Lewis Smith, Infantry
- Paul Giles Stevens, Infantry
- David Alfred Sutherland, Infantry Francis Alden Thomson, Infantry
- ‡William Morse Valencia, Corps of Engineers
- *Paul Kenneth Viens, Infantry David Alanson Wetherby, Signal Corps
- *‡Raymond Hugh Wheelock, Infantry* Harold Clinton White, Jr., Infantry Charles Edward Wiley, Quartermaster Corps
- *Frank Elbert Woodcock, Chemical Corps
- * Will receive commission upon completion of Summer Camp 1951.

PRIZES

THE GEORGE H. WALKER DAIRY PRIZE

For Conspicuous Merit in Dairy Husbandry Studies and Character Donald Harold Plumb, '51

THE ELWIN L. INGALLS 4-H PRIZE

In Honor of Elwin L. Ingalls, for Outstanding Merit in 4-H Club Work, Character, and Scholarship

Homer Blakely Harris, '51

Prizes

THE SEYMOUR HORTICULTURAL PRIZE

For the Best Work in Original Horticultural Research by a Member of the Senior Class

Albert Baral Drechsler, Jr., '51

BURPEE AWARD IN HORTICULTURE

Awarded on the Basis of Scholarship, Practical Experience, and Interest in Flower and Vegetable Growing Leighton Calvin Pratt, '51

THE GERMAN LITERARY PRIZE

Awarded by the Goethe Lodge of Burlington for General Excellence in German Calef Edwin Heininger, '51

THE EDWARD PAGE BUTLER DEBATING PRIZES

Awarded for Proficiency in Debate

First and Second (tie): Mary Ellen Fuller, '51 and Margaret Ann Fisher, '51 Third: Jean Ann Millis, '53

THE ROBERT ASHTON LAWRENCE DEBATING PRIZES

Awarded for Proficiency in Debate

First: Bruce Marvin Stargatt, '51 Second: Eugene Forrest Gordman, '52 Third: Lindley Stearns Hartwell, '51 Barry Jay Grandeau, '52

THE ROBERT ASHTON LAWRENCE AND GEORGE EDWIN LAWRENCE DEBAT-ING PRIZES

Awarded for Proficiency in Debate

First and Second (tie): Charles Frederick Black, Jr., '52 and Philip Levin, '52

THE HANNAH G. SOLOMON PRIZE

Awarded by the Burlington Section of the National Council of Jewish Women to the Senior Women Who Have Exhibited in the Highest Degree the Qualities of Scholarship, Leadership, and Service

Ruth Arleen Warrell, '51

THE B'NAI B'RITH PRIZE

Awarded by the Joseph Frank Lodge of Burlington to That Student Who Has Done Most to Encourage Interfaith Cooperation and Activities Ruth Naomi Goldberg, '52

THE A. ATWATER KENT PRIZE

Given in Electrical Engineering for Progress in Judgment, Development of Personality and Promise of Success

Charles Warren Wallace, '51

Register

PHELPS PRIZE

Awarded in Civil Engineering for Conspicuous Merit in Professional Studies, and High and Noble Traits in Personal Character Erich Henry Rutscheidt, '51

THE FRED T. KIDDER MEDAL

Awarded for Character, Leadership, and Scholarship Robert Eugene Herriott, '51

THE WASSON ATHLETIC PRIZE

In Memory of Dr. Watson L. Wasson '01 for Scholarship and Athletic Attainment James Burtt Porter, '51

THE ATHLETIC COUNCIL MANAGERIAL PRIZE

Awarded to That Major Sport Manager Deemed Most Proficient Richard Davison Aplin, '51

CARBEE MEDICAL PRIZE

To the Student in the College of Medicine Who Shows the Greatest Proficiency in the Subject of Obstetrics

John Clifford Lantman, B.S.

WOODBURY PRIZES IN MEDICINE

For the Greatest Proficiency in Clinical Work in Senior Year Reginald Frederick Krause, Ph.D.

To the Sophomore Having the Highest Standing for Two Years of Medical Work Bernard Kabakow, B.S., M.A.

NU SIGMA NU MERIT AWARD

To the Outstanding Student in the Junior Class of the Medical College Harry Elwin Howe, M. Ed.

LAMB FOUNDATION PRIZES

To the Students Showing Greatest Comprehension and Appreciation of the Doctor-Patient Relationship

First: Henry Wasserman, A.B. Second: Deal Tabor Aseltine, Jr., B.S. Third: Jack Wallace Conklin, A.B.

WILLIAM S. ROSENBAUM MEMORIAL AWARD

Awarded for Excellence in Hebrew Hugh Sanford Levin, '53

This organization was formed May 1, 1920.

The object of the Council is to advance the interest, influence, and efficiency of the University of Vermont; to strengthen the relations between the alumni and the University; to encourage sufficient class organization; to keep the public informed in regard to the University: to keep before the various preparatory schools of the country the advantages of the University of Vermont as an educational institution; to aid and assist in the establishment of alumni associations and promote their interests; to report from time to time to the Board of Trustees of the University any facts and recommendations by the Council deemed material or for the interests of the University; to act as a medium that may make known the ideas of the alumni to the University, and wishes of the University to the alumni; to keep in touch with the undergraduate activities, and to act in an advisory capacity through the Executive Committee and office of Alumni Council to such of the undergraduates as may desire to consult it in reference to their occupations after graduation, and for that purpose to keep in as close a touch as possible with the demands of the country's professional, business and industrial needs.

The Alumni Council is composed of one member from each of the fifty classes last graduated, one member from each active alumni club and twenty members at large, one-half of such members at large being women.

PRESIDENT—Elias Lyman, North Ferrisburg, Vt.

SECRETARY-Isabelle Y. Gallup, 530 North St., Burlington, Vt.

ALUMNI OFFICE-Waterman Building, Burlington, Vt.

- Chairman of Finance Committee: David W. Webster, 31 Cliff St., Burlington, Vt.
- Co-Chairmen of Commencement: John H. Suitor, '38, Deerfield, Mass., and Thomas D. Cook, '25, 101 Robinson Pkwy., Burlington, Vt.
- Chairman of Undergraduate Activities: Lyman S. Rowell, '25, 38 Cliff St., Burlington, Vt.
- Chairman of Scholarship Committee: Willis R. Buck, '17, 414 Colchester Ave., Burlington, Vt.
- Ex-Officio: William M. Lockwood, '27, 273 S. Prospect St., Burlington, Vt.; Lawrence F. Killick, '22, 10 Greene St., Burlington, Vt.; Frederick S. Harris, '22, 29 Colony St., Meriden, Conn.; Harold C. Collins, '28, 127 Mansfield Ave., Burlington, Vt.

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Athletic Council: Lawrence F. Killick, '22; John W. Goss, '10; Loren F. Palmer, '29; Robert P. Lawton, '37.

Honorary Members:

President William S. Carlson, 25 Colchester Ave., Burlington, Vt.; Dr. Clarence H. Beecher, '00, 151 Robinson Pkwy., Burlington, Vt.

CLASS REPRESENTATIVES

- 1902 Alice H. Derby, 40 Robinson Pkwy., Burlington, Vt.
- 1903 Harold J. Adams, 705 Walbridge Bldg., Buffalo, N. Y.
- 1904 Elmer E. Gove, Shelburne Rd., Burlington, Vt.
- 1905 Kathryn M. Coventry, 312 So. Winooski Ave., Burlington, Vt.
- 1906 Robert L. Whipple, 4 Wheeler Ave., Worcester, Mass.
- 1907 Martin Hervey Rice, 77 Ledge Rd., Burlington, Vt.
- 1908 William L. Blanchard, 89 Walton Park, Melrose Highlands, Mass.
- 1909 William L. Gardner, 17 Overlake Park, Burlington, Vt.
- 1910 Albert Valentine Kieslich, 167 North Ave., Burlington, Vt.
- 1911 Ray R. Allen, South Hero, Vt.
- 1912 Albert L. Gutterson, 49 Cherry Hill, Springfield, Vt.
- 1913 Charles P. Smith, Jr., Appletree Point, Burlington, Vt.
- 1914 Harold F. Johnson, 60 Hopkins Pl., Longmeadow, Mass.
- 1915 Joseph B. Johnson, 1 Hillcrest Rd., Springfield, Vt.
- 1916 Morris R. Wilcox, 152 Lyman Ave., Burlington, Vt.
- 1917 Henry T. Way, Porter Screen Co., Winooski, Vt.
- 1918 George C. Stanley, 86 Loomis St., Burlington, Vt.
- 1919 Herbert D. Pearl, 154 Summit St., Burlington, Vt.
- 1920 Dr. Peter P. Lawlor, 65 Pine St., Burlington, Vt.
- 1921 Mrs. Helen Stiles French, Rt. 1, Hinesburg Rd., Burlington, Vt.
- 1922 Lawrence F. Killick, 10 Greene St., Burlington, Vt.
- 1923 Wesley W. Smith, Jr., Middlebury, Vt.
- 1924 Daniel B. Dyer, Essex Junction, Vt.
- 1925 Leon D. Latham, Jr., 112 Bradley Rd., Burlington, Vt.
- 19.26 Olney W. Hill, 539 St. Paul St., Burlington, Vt.
- 1927 Charles B. Finnegan, 213 Shelburne Rd., Burlington, Vt.
- 1928 Kenneth H. Gurney, 50 Hillcrest Rd., Burlington, Vt.
- 1929 Constans M. Holden, 257 So. Union St., Burlington, Vt.
- 1930 Mrs. Julia Waterman Jay, 441 So. Union St., Burlington, Vt.
- 1931 John A. Bradish, Williston, Vt.
- 1932 James W. Marvin, South Burlington, Vt.
- 1933 Merrill E. Agel, 401 North St., Burlington, Vt.
- 1934 John C. Arnold, Jr., 420 So. Winooski Ave., Burlington, Vt.
- 1935 Donald C. Gregg, 35 So. Converse Hall, U.V.M., Burlington, Vt.
- 1936 Mrs. Gladys Sussdorf Keelty, 10 Abnaki Ave., Essex Jct., Vt.

- 1937 Donald H. Tetzlaff, 30 Park St., Barre, Vt.
- 1938 Albert C. Spaulding, III, East O'Lake, Burlington, Vt.
- 1939 Mrs. Martha Douglass Peterson, 142 N. Church St., Rutland, Vt
- 1940 Florence I. Wade, 38 So. Union St., Burlington, Vt.
- 1941 Kenneth W. Johnson, Champlain College, Plattsburg, N. Y.
- 1942 William P. Leamy, 27 School Street., Burlington, Vt.
- 1943 Paul N. Sutton, 140 Summit St., Burlington, Vt.
- 1944 James P. Irish, R. D. 2, Milton, Vt.
- 1945 Mrs. Harriet Pearl Grant, 156 Summit St., Burlington, Vt.
- 1946 John W. Baxendale, 91 Grant St., Burlington, Vt.
- 1947 Keith W. Calkins, 1122 Greenwood Rd., Brooklyn, N. Y.
- 1948 Philip E. Robinson, 1246 So. Taylor St., Arlington, Va.
- 1949 Mitchell J. Hunt, West Chester, Pa.
- 1950 Franklin M. Peabody, 522 E. State St., Ithaca, N. Y.
- 1951 Edward F. Streeter, 381 Main St., Burlington, Vt.
- 1952 Arthur J. Pruneau, 3 Anderson Ave., Barre, Vt.
- 1953 Kenena M. Hansen, 44 Edgerton St., Rutland, Vt.
- 1954 Martha J. Edson, 82 Davis St., Rutland, Vt.

MEMBERS-AT-LARGE

Term Expires 1952

Leon W. Dean, '15, 308 So. Prospect St., Burlington, Vt. H. Marian Way, '23, 115 Summit St., Burlington, Vt. Jerome H. Farwell, '33, 370 Maple St., Burlington, Vt. Harold W. Marsett, 3 McKinley St., Montpelier, Vt.

Term Expires 1953

Dr. W. Andrew R. Chapin, 40 Riverview Terr., Springfield 8, Mass. John W. Goss, 77 Ledge Rd., Burlington, Vt. Rev. Robert F. Joyce, St. Peter's Church, Rutland, Vt. Lyman S. Rowell, 38 Cliff St., Burlington, Vt.

Term Expires 1954

Willis R. Buck, '19, 414 Colchester Ave., Burlington, Vt.

Raymond E. Holway, '25, Box 347, Rutland, Vt.

Mrs. Eleanor Lockwood Nowlin, '28, 242 So. Winooski Ave., Burlington, Vt.

Frederick W. Shepardson, '12, 101 Ledge Rd., Burlington, Vt.

Term Expires 1955

David W. Howe, '14, 385 So. Prospect St., Burlington, Vt. Mary Jean Simpson, '13, 61 No. Prospect St., Burlington, Vt. Harris W. Soule, '22, 308 Main St., Burlington, Vt. Mrs. Lillian Cohen Samuelson, '30, Spear St., Burlington, Vt.

Term Expires 1956

Fred B. Wright, '05, Cliff Pl., Pelham 65, N. Y.

Thomas J. Mulcare, Jr., '09, 414 Mt. Auburn St., Cambridge 38, Mass. Mrs. Alice Hamilton Myers, '37, 387 So. Union St., Burlington, Vt. Robert F. Patrick, '25, 74 Overlake Park, Burlington, Vt.

CLUB REPRESENTATIVES

Out-of-State

Boston, Mass.—To be named.

- Buffalo (Western N. Y.)-Chas. F. Blair, '99, 810 White Bldg., Buffalo, N. Y.
- California—Arthur E. Lovett, '00, 1113 Marengo Ave., So. Pasadena, Calif.
- Chicago, Ill.-Harold C. Carter, '25, 242 Columbia Ave., Park Ridge, Ill.
- Cleveland, Ohio-Earle W. Brailey, '14, 19201 So. Moreland Blvd., USSN Sta., Cleveland 22, Ohio.
- Detroit, Mich.—Edward D. Trowbridge, '26, 722 Notre Dame, Grosse Point 30, Mich.
- Hartford, Conn., Alumnae-Mrs. Lucy Eaton Ellis, 263 Brimfield St., Wethersfield, Conn.
- Hartford, Conn. Alumni—Jas. H. Naylor, Jr., '37, Rt. 3, Rockville, Conn.
- Hampshire County, Mass.—James P. Reed, '10, 125 Russell St., Hadley, Mass.
- New York Alumni-Robert S. Buttles, '25, 120 Broadway, N. Y. City.
- New York Medical Alumni-Dr. Allen M. Margold, '25, 148 East Ave., Norwalk, Conn.
- New York Capital District—Dr. Arthur Q. Penta, '25, 1301 Union St., Schenectady 8, N. Y.
- Philadelphia, Pa.—Benjamin F. Butterfield, '24, 17 Ellis Rd., Havertown, Pa.

Pittsburgh, Pa.—Harold E. Hazen, '24, 435 Avenue D, Pittsburgh 21, Pa.

Rochester, N. Y.-Arthur B. Corey, 155 Summit Dr., Rochester, N. Y.

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- Springfield, Mass.—Raymond G. Kinsler, 409 Trafton Rd., Springfield, Mass.
- Washington, D. C.—O'Neil Tolman, '26, 1025 Connecticut Ave., N.W., Washington, D. C.

Worcester, Mass.-G. Stanley Flagg, '32, 4 Robert Ave., Auburn, Mass.

Vermont

Addison County-Arthur B. Delano, '11, Shoreham, Vt.

- Burlington Alumni-Howard A. Allen, Jr., 88 N. Willard St., Burlington, Vt.
- Burlington Alumnae—Mary O. Boynton, '94, 31 So. Prospect St., Burlington, Vt.
- U. V. M. Medical—Dr. John C. Cunningham, '35, Billodeau Ct., Burlington, Vt.
- Caledonia County—James B. Campbell, '09, 15 Summer St., St. Johnsbury, Vt.
- Bennington County-Walter C. Wood, '16, 317 Washington Ave., Bennington, Vt.
- Franklin' and Grand Isle Counties-Robert W. Ready, '24, Franklin Co. Savings Bank Bldg., St. Albans, Vt.
- Lamoille County-Mrs. Priscilla S. Davison, '23, Morrisville, Vt.
- Orleans and Essex Counties-Roger D. Whitcomb, '38, 10 Maple St., Newport, Vt.

Rutland County-Chester B. Eaton, '34, 141 Ash St., Rutland, Vt.

Washington County (Orange, Williamstown and Washington), Fletcher B. Joslin, '34, Waitsfield, Vt.

Windsor County-Philip W. Noyes, '37, 117 Main St., Ludlow, Vt.

Loan Funds, Scholarships, and Prizes

LOAN FUNDS

THE AMERICAN AGRICULTURIST RESEARCH FOUNDATION LOAN FUND, amounting to five hundred and fifty dollars, is available to Juniors and Seniors in Home Economics on recommendation of the Dean of the College of Agriculture.

THE BARNES FUND, established by bequest of Rev. Stephen G. Barnes, provides limited assistance to needy students who wish to attend inspirational religious conferences. The income of the one thousand dollar endowment is available as a loan or gift.

THE CHARLES H. BAYLEY LOAN FUND, amounting to ten thousand dollars, was established in 1937 and increased in 1939 by gifts of Laura Morse Bayley in memory of her husband.

THE JOHN H. AND MARY A. BLODGETT LOAN FUND, amounting to fortyseven thousand dollars, was established in 1938 by bequest of Mary A. Blodgett of Bellows Falls. It is loaned to worthy Vermont boys and girls, enrolled in any curriculum offered by the University. Preference is given to graduates of the Kurn Hattin and Warner Memorial Homes of Westminster and Saxtons River and to students who are residents of the town of Rockingham. The interest rate is four per cent during college residence and for one year after leaving, and five per cent thereafter until the loan is repaid, subject, however, to modification in particular instances at the discretion of the Student Aid Committee.

THE CARBEE LOAN FUND of four thousand dollars was established by Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the Class of 1873. This fund is to be loaned to deserving students of the College of Medicine.

THE CHAPMAN LOAN FUND, established in 1950 by the bequest of Elizabeth Chapman of Cambridge, Mass., provides that the income from approximately thirty thousand dollars be loaned to deserving students.

THE CLASS OF 1923 LOAN FUND, amounting to four hundred dollars, is available to students in the academic colleges.

Loan Funds

THE CLASS OF 1929 LOAN FUND, established in 1936, is loaned to students of the academic colleges. The fund amounts to more than seven hundred dollars.

THE CONSOLIDATED LOAN FUND is made up of the Class of 1924 Fund, the Class of 1925 Fund, the Emergency Loan Fund, the Julia I. Bates Fund, the Student Loan Fund, the B. F. Taylor Fund, the New York Alumni Fund of November, 1927, the Edmund Seymour Fund, the Kidder Loan Fund and the Lydia M. Blood Loan Fund. These consolidated funds amount to more than twenty thousand dollars.

THE LEONARD PERLEY DICKINSON LOAN FUND is available to deserving students who are pursuing a course leading to a bachelor's degree in Engineering. Preference is to be given students pursuing the Electrical Engineering Course. This loan fund amounts to approximately seven thousand dollars.

THE ANNETTE FISKE MERENESS LOAN FUND is for the benefit of women students. The fund amounts to more than twelve thousand dollars.

THE ASA FISKE LOAN FUND was established by Annette Fiske Mereness in memory of her father. It amounts to seven thousand two hundred dollars and is available to young women.

THE MARY GRAVES LOAN FUND amounting to six thousand nine hundred dollars is available as a loan fund for women. It is the gift of Annette Fiske Mereness, in memory of her mother.

THE JOSEPH LAWRENCE HILLS LOAN FUND, established by friends of Dean Hills, who completed fifty years of service to the University in 1937, now amounts to over two thousand dollars.

THE STEPHEN DWIGHT AND LIDA MASON HODGE LOAN FUND, amounting to more than three thousand dollars, may be loaned under certain conditions to deserving women students enrolled in the College of Arts and Sciences.

THE JEUDEVINE FUND was established by Allen E. Jeudevine as a memorial to his son, Cornelius A. Jeudevine, who died before his plan of entering college was realized. This fund is to aid poor and deserving young men in Vermont in obtaining a liberal education. The fund now amounts to more than thirty-two thousand dollars.

CHARLES S. AND ETTA M. KEHOE LOAN FUND, to be loaned to deserving students, subject to such regulations as the Board of Trustees shall prescribe, amounts to eight thousand two hundred dollars.

THE LADIES OF THE FACULTY LOAN FUND, amounting to eight hundred ninety dollars, is available to deserving and needy girls. The awards are made by a committee of the Ladies of the Faculty. Not more than fifty dollars is loaned to any one girl.

THE LANDON FUND was established by Susan W. Landon in memory of her brother, Sealand W. Landon of the Class of 1874, for many years a well-known school principal. This fund, amounting to more than ten thousand dollars, is loaned to deserving men and women.

THE DR. JOSEPH E. LUMBARD LOAN FUND, amounting to more than one thousand dollars, was established in 1946 by the gift of Mr. J. Edward Lumbard, Jr. Loans are made to needy and deserving students in the College of Medicine.

THE MEDICAL COLLEGE LOAN FUND, established in 1933 by Medical College alumni and amounting to sixty-seven hundred dollars, is available for loans to students enrolled in the College of Medicine.

THE CHARLES D. AND CARRIE D. ORDWAY LOAN FUND was received as a bequest from Charles D. Ordway in 1933. It amounts to more than twenty-six thousand dollars and is available to Vermont students.

THE MARY MAUD PATRICK LOAN FUND, amounting to two hundred eightyfive dollars, was established by Epsilon Sigma as a memorial to Mary Maud Patrick for the benefit of students in elementary education.

THE PHI BETA KAPPA LOAN FUND of six hundred dollars is available to members of the senior class, preference being shown to applicants who are members of the society.

THE RIXFORD MANUFACTURING COMPANY LOAN FUND of five hundred dollars is available for students who are residents of the town of Highgate.

THE HENRY BIGELOW SHAW LOAN FUND, amounting to three thousand dollars, was established in 1938 by Mrs. Willard Pope in memory of her brother, Henry Bigelow Shaw of the class of 1896. The fund is loaned, under certain restrictions, to young men who have been graduated from the University and who wish to study at Harvard University Law School.

THE MARY A. SHAW AND FANNY E. SHAW LOAN FUND was established by Mrs. Willard Pope, daughter of Mary A. Shaw, for the benefit of women students of the University. The fund amounts to three thousand five hundred dollars. THE F. H. AND GRACE M. SHEPARDSON FUND, amounting to approximately sixty-eight thousand dollars, is to be loaned to deserving students, subject to such regulations as the Board of Trustees shall prescribe.

THE STEVENS LOAN FUND, given in 1926 by relatives of Horace E. Stevens of the Class of 1870 in his memory, is available to students in Engineering. The fund amounts to two thousand dollars.

THE EMILY AND THOMAS TELFER LOAN FUND, established by Mrs. Thomas Telfer of Berkeley, California, amounts to twenty thousand dollars.

THE TERRILL-HOLBROOK LOAN FUND of about one thousand dollars is available for loan to women students, preference being shown to those registered in the Home Economics curriculum.

THE WOMEN'S STUDENT HEALTH COUNCIL LOAN FUND, amounting to about one thousand dollars, is loaned to women designated by the Dean of Women and the Director of the Department of Physical Education for Women, under special regulations as to interest and repayment.

SCHOLARSHIPS

THE LIZZIE P. ALLEN SCHOLARSHIPS, were founded in 1900 by Lizzie P. Allen, a descendant of Ira Allen, founder of the University.

THE ALUMNI MEMORIAL SCHOLARSHIP FUND, appropriated annually by the Executive Committee of the Alumni Council, provides scholarships for male students of the University who are deemed worthy, who are in need, and who meet the qualifications of sound scholarship, good character, outstanding leadership, and participation in student activities. The award is made on an annual basis upon the recommendation of the Alumni Council or a committee of the Alumni Council designated for that purpose. Each scholarship is named in memory of an alumnus.

THE FRANKLIN BALDWIN SCHOLARSHIP, established in 1915 by bequest of Mr. Baldwin, is available to students from Putney.

THE BARNARD SCHOLARSHIPS, were founded in 1903 by the bequest of Rev. Lucius E. Barnard of the Class of 1853.

THE REUBEN CLARK BENTON SCHOLARSHIPS, established under the will of Reuben Clark Benton, '54, of Minneapolis, Minn., native of Waterford, and a boyhood resident of Lunenburg, for the benefit of students from Waterford, Lunenburg, or Minneapolis.

THE ADA S. BLAIR FUND of two thousand five hundred dollars was established in 1926 by a bequest from Miss Blair.

THE BORDEN AGRICULTURAL SCHOLARSHIP of three hundred dollars is awarded annually to that eligible student in the College of Agriculture who on entering his senior year has the highest average grade of all eligible students in all preceding college work. Students who have included in their courses of study two or more dairy subjects are eligible for the award.

THE ELIZABETH F. BRIGHAM SCHOLARSHIPS, founded in 1910 by a bequest from Miss Brigham, are available first for students from Brigham Academy.

THE MARCIA P. BROWN SCHOLARSHIP, established by a bequest from Miss Brown is available to women students.

THE EMEROY N. BURRITT SCHOLARSHIP, a bequest from Miss Burritt, is used toward the tuition of a deserving young woman student.

THE SARAH L. BURRITT SCHOLARSHIP, a bequest from Miss Burritt, is used toward paying the tuition of a deserving young woman student.

THE EZRA HOYT BYINGTON SCHOLARSHIP, founded in 1905 in memory of Mr. Byington by a gift from Mrs. Louisa J. Byington, is for the benefit of students from Hinesburg or students bearing the name of Byington, <u>Boynton</u>, Hoyt, or Wortman, or in some way related to these families.

THE MOSES D. CARBEE SCHOLARSHIP, established by a bequest from Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, a graduate of the University in 1873, is available for medical students.

THE WALTER CARPENTER SCHOLARSHIP was established by a bequest of one thousand dollars from Dr. Walter Carpenter of Burlington. Preference is given to sons of clergymen and physicians.

THE CHAPMAN SCHOLARSHIP FUND, established in 1950 by the bequest of Elizabeth Chapman of Cambridge, Mass., provides that the income from fifty-eight thousand dollars be used for scholarships to qualified and deserving students.

THE CLASS OF 1861 SCHOLARSHIP, endowed and made available in 1891.

THE CLASS OF 1881 SCHOLARSHIP, endowed in 1937 by William H. Rice. a member of that class.

THE JOHN H. CONVERSE SCHOLARSHIP, founded in 1882, by John H. Converse, '61, of Philadelphia.

THE LIZZIE S. CONVERSE SCHOLARSHIP, founded by bequest of Sarah Elizabeth Converse of Burlington, for students in the Classical Department.

Scholarships

THE CRAFTSBURY SCHOLARSHIP, founded in 1900, for the benefit of relatives of Mr. and Mrs. Nathan S. Hill, or residents of Craftsbury or Isle La Motte.

THE PHILIP HENRY CREER SCHOLARSHIP, founded by Ex-Gov. Redfield Proctor for the benefit of students from Proctor, is awarded by the donor.

THE ESSO 4-H SCHOLARSHIP of one hundred dollars is awarded each year by the Esso Standard Oil Company of New Jersey to an incoming freshman in the College of Agriculture on the basis of need, character and scholastic ability, plus at least three years of 4-H work. If satisfactory grades are maintained, one hundred dollars per year will be paid the recipient for the succeeding three years.

THE FRANCISCO SCHOLARSHIP FUND, established in 1951 by the bequest of Rollo J. Francisco of Rutland, provides that the income from approximately \$1,500 be used to provide scholarships for needy and worthy students.

THE EDWARD EVERETT HAWES FUND, founded in 1946 by bequest of Dr. Edward Everett Hawes of Hyannis, Mass., provides scholarship aid for medical students.

THE ALBERT T. HENDERSON SCHOLARSHIP was established in 1945 by a bequest from William J. Henderson in memory of his son.

THE FRANCIS WHELPLEY HICKOK SCHOLARSHIPS, were founded in 1902 by Mrs. Julia F. Hickok, widow of James W. Hickok of the Class of 1837, in memory of their son, a member of the Class of 1871.

THE CHARLES H. HOOD SCHOLARSHIPS of two hundred and fifty dollars each are given by the Charles H. Hood Dairy Foundation established by Dr. Charles H. Hood of Boston and are awarded by the Dean of the College of Agriculture. Six of the Hood Scholarships are available to upperclass students whose major work is related to the farm production of milk. High scholastic standing is essential.

THE LOUISA H. HOWARD SCHOLARSHIPS, founded in 2882 by Miss Louisa H. Howard of Burlington, are available for men.

THE CHARLES A. HOYT SCHOLARSHIPS were founded in 1904 by a bequest from Mr. Hoyt, of the Class of 1858.

THE ISLE LA MOTTE SCHOLARSHIP was founded in 1884 by Nathan S. Hill of Burlington, for the benefit of students from Isle La Motte or from Craftsbury.

THE SARAH B. JACOBS SCHOLARSHIPS, founded in 1882 by Mrs. Sarah B. Jacobs of Boston, are available for graduates of Brigham Academy only.

THE EDITH BLANCHE KIDDER SCHOLARSHIPS were established by Joseph W. Kidder of Port Chester, N. Y., for students in the College of Medicine, preference being shown to legal residents of Barre.

THE ROBERT J. KIMBALL SCHOLARSHIP, founded in 1900 by Hon. Robert J. Kimball of Randolph, is for the benefit of the students from Randolph. The Trustees of Randolph High School may make nominations for this scholarship.

THE CELINDA A. B. LILLEY SCHOLARSHIPS were founded in 1880 by gifts from Mrs. Lilley for the benefit of women students.

THE LYNDON INSTITUTE SCHOLARSHIP, endowed by George E. P. Smith of the Class of 1897, is awarded annually to a graduate of Lyndon Institute nominated by the faculty of that school.

THE CHARLES MUNSON MARSH SCHOLARSHIP was founded in 1893 for the benefit of students from Woodstock, by bequest of Charles P. Marsh in memory of his son.

THE CHARLES P. MARSH SCHOLARSHIPS were founded in 1893 by bequest of Mr. Marsh for the benefit of worthy young men and women from Windsor County.

THE EDWIN WRIGHT MARSH SCHOLARSHIP, founded in 1883 by Charles P. Marsh of the Class of 1839, of Woodstock, in memory of his son of the Class of 1872, for the benefit of students from the town of Weathersfield or from Windsor County.

THE MARGARET PATTERSON MCDANIELS SCHOLARSHIP FUND was established in 1941 by a bequest of George N. McDaniels of Los Angeles, California, in memory of his mother. The scholarships derived from the income are for needy and deserving students, preference being shown to applicants who reside in the towns of Craftsbury and Greensboro.

THE MINER FUND was established in 1943 by a bequest from Daniel Pitkin Miner, the income to be used to provide for native-born students, not over twenty-one years of age and in need of aid, assistance in meeting tuition fees and other educational expenses in the University.

THE MORETOWN AND MIDDLESEX SCHOLARSHIPS were founded by the Rev. E. C. Bass, '59.

THE JUSTIN S. MORRILL SCHOLARSHIP, founded in 1900 by Senator Justin S. Morrill of Strafford, is for the benefit of students from Strafford.

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP of five hundred dollars is awarded to a male student from New York or vicinity. Three hundred dollars of this sum is given for tuition, the balance is loaned and

Scholarships

bears a low rate of interest after the recipient has left College. This scholarship is awarded by a committee of the New York Alumni Association.

THE JOHN ORDRONAUX SCHOLARSHIPS were founded in 1909 for the benefit of students in the Academic and Medical Colleges.

THE PARKER SCHOLARSHIP was founded in 1880 by Rev. Charles C. Parker, D.D., of the Class of 1841, in memory of himself and his son, Charles Edmund Parker, '67.

THE ARTHUR W. AND LOUISE S. PERKINS SCHOLARSHIP FUND was established in their memory in 1947 by their son and daughters. The income provides aid for a needy boy or girl of high character and reasonably good scholarship who is a graduate of a secondary school in Rutland. School authorities in Rutland are to be consulted regarding the qualifications of candidates who are not already enrolled in the University.

THE MINNIE A. PICKERING SCHOLARSHIPS were established in 1938 by a gift from Mrs. Minnie E. Pickering in memory of her daughter.

THE CHARLES W. RICH SCHOLARSHIP was founded in 1883 by Charles W. Rich of the Class of 1836 of St. Albans, for the benefit of students in the College of Arts and Sciences.

RUSSELL MILLER MILLING COMPANY SCHOLARSHIPS. Two annual educational scholarships of one hundred dollars each, known as the "Occident Flour 4-H Club Scholarships" are available to 4-H Club girls who have done high quality work in Home Economics projects for three years or more.

THE SEARS-ROEBUCK FOUNDATION SCHOLARSHIPS, four of two hundred dollars each to men in Agriculture, and two of one hundred dollars each to women in Home Economics, are awarded annually to incoming freshmen in the College of Agriculture on the basis of need, character and scholastic ability.

THE WILLIAM G. SHAW SCHOLARSHIP, originally founded in 1892 by bequest of one thousand dollars by Hon. William G. Shaw of Burlington, of the class of 1849, has since been increased by Mr. Shaw's daughter, Mrs. Willard Pope of Detroit, Mich., and is available for men students.

THE CHARLES D. SIAS SCHOLARSHIP FUND was established in 1943 by a bequest of fifteen thousand dollars from the estate of Charles D. Sias of Wenham, Mass., for the benefit of deserving young men.

THE SAMUEL SIDNEY SMITH SCHOLARSHIP was founded in 1896 by bequest of Mrs. Elisa Smith of Burlington in memory of her husband.

THE SOLDIERS' SCHOLARSHIP FUND was founded in 1913 by a group of Civil War veterans for the benefit of students who are descendants of soldiers in the Civil War.

THE SOPHIA STOW SCHOLARSHIPS, endowed in 1937 by bequest of George L. Stow, '73 in memory of his mother, are available to students of classical languages.

THE DANIEL WASHBURN SCHOLARSHIPS were founded in 1853 by Daniel Washburn, M.D., of Stowe, for the benefit of young men studying for the Christian ministry, or, in default of such applicants, of other deserving young men.

THE JOHN AND MARY WATERMAN SCHOLARSHIP endowed in 1923 by Charles W. Waterman of the Class of 1885 in memory of his father and mother, is available under special restrictions to residents of Waitsfield or Denver, Colo. The scholarship is awarded by the President of the University.

THE WESTFORD SCHOLARSHIP, founded in 1882 by Luke P. Poland of St. Johnsbury, is available first to students from the town of Westford.

THE HATTIE LAURA WETHERBY WESTON SCHOLARSHIPS were founded in 1936 by the bequest of Mrs. Weston.

THE JOHN A. S. WHITE SCHOLARSHIP FUND was established by a bequest from John A. S. White of Northfield for the benefit of needy students from Washington County or from the State of Vermont.

WILBUR SCHOLARSHIPS. The University of Vermont Trust Fund, amounting to over one million dollars, was established by James B. Wilbur of Manchester as an endowment for scholarships for Vermont students who are in need of assistance to undertake college work and who have earned entrance or college records that indicate extraordinary scholastic ability. From the data presented in annual applications, tentative awards for the ensuing college year are made by the Trustees of the Trust on recommendation of the Committee on Student Aid and confirmed or denied in the middle of the year on the basis of the scholastic record of the previous semester. Preliminary statements concerning scholastic ability must be submitted with the request for an application blank.

THE WIRTHMORE 4-H SCHOLARSHIP of one hundred dollars is awarded annually to a 4-H member who has done outstanding work in 4-H dairy or dairy feeding projects and who enrolls as a freshman in the College of Agriculture. The selection is made by the 4-H leaders and the Dean's office.

THE CLAYTON J. WRIGHT SCHOLARSHIP was received by bequest from Mr. Wright and is available first for students from the town of Williston.

PRIZES

THE AMERICAN LEGION TROPHY, a mounted silver shield, is annually awarded to the Reserve Officers' Training Corps company which shows itself to be the most proficient in attendance, neatness, set-up, and drill. The designation of the winning organization and the name of the company commander of that organization are annually inscribed upon the shield. The shield was presented by Burlington Post, No. 2, of the American Legion.

THE ATHLETIC COUNCIL MANAGERIAL PRIZE of twenty-five dollars is awarded annually at Commencement to the senior sports manager who, in the judgment of the Athletic Council, has shown the greatest proficiency in performing the work of his office.

THE BENEDICT ESSAY PRIZE was established by Robert Dewey Benedict of the Class of 1848, who gave three hundred dollars for this purpose. From the income from this fund, a prize may be awarded annually to the member of the senior class who presents the best essay on the subject of "International Arbitration." The Department of Political Science determines whether or not the prize shall be awarded, and its decision is based upon the nature of the essay presented and the rating obtained in an oral examination thereon.

THE BENNETT ESSAY PRIZE is endowed by Philo Sherman Bennett of New Haven, Conn. From the income from the fund of four hundred dollars provided for this purpose, a prize may be awarded each year at commencement for the best essay "discussing the principles of free government." The Department of Political Science determines whether or not the prize shall be awarded, and its decision is based upon the nature of the essay presented and the rating obtained in an oral examination thereon.

THE B'NAI B'RITH PRIZE of twenty-five dollars is given annually by the Joseph Frank Lodge of Burlington to that student who in the opinion of the Committee on Religious Life has done most to encourage inter-faith cooperation and activities.

THE BURPEE AWARD IN HORTICULTURE, an annual award of one hundred dollars made possible by a grant from the W. Atlee Burpee Company, Seed Growers, of Philadelphia, Pa., and Clinton, Iowa, is made on the basis of scholarship, practical experience, and interest in flower and vegetable growing.

THE BUTLER DEBATING PRIZES were endowed by Edward Page Butler of the Class of 1870, who left one thousand two hundred dollars, the income to be used for the promotion of extemporaneous debate. From the

income of this fund three prizes may be awarded annually, on recommendation of the head of the Department of Speech, to the three women students who have shown the greatest ability in debate. The balance of the income, together with the amounts of any prizes that are not awarded, will be expended in furthering debating.

THE CARBEE MEDICAL PRIZE of three thousand dollars was established by Mrs. May D. Carbee, of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the Class of 1873. The income from the fund is given annually at Commencement to the student in the College of Medicine who shows the greatest proficiency in the subject of obstetrics.

THE CONVERSE PRIZES IN COMMERCE AND ECONOMICS were established by John Heman Converse of the Class of 1861, by gift of a fund of one thousand dollars, the income from which may be used in whole or in part for one, two, or three prizes. Any amount not awarded will be used for books and magazines for the Department of Commerce and Economics. The prizes are awarded on recommendation of the head of the department following presentation of a thesis of merit on some approved subject in the field of commerce and economics.

THE CRAIG TROPHY was donated to the University of Vermont by Major M. E. Craig, in honor of the 1936-1937 Rifle Team of the University of Vermont. Upon it is engraved each year the name of the man making the highest cumulative score throughout the year in the principal matches in which the University rifle team is a competitor. These competitions are The Hearst Trophy Match, The Corps Area Match and the matches in the New England League of the National Rifle Association. The award is announced annually by the Military Department. The trophy remains the property of the University of Vermont.

THE EMERSON PRIZE IN HISTORY is offered annually at Commencement in memory of Samuel Franklin Emerson, Professor of History for fortytwo years. The prize is awarded to an undergraduate for the best original essay on any topic chosen from any field of history. Essays are not limited as to length but must be typewritten, double space, on white paper $8\frac{1}{2}$ by 11 inches in size. Each essay is to be signed by a fictitious name, the identification of which must be given in an accompanying sealed envelope bearing on the outside the fictitious name which was used. All essays considered in the competition must reach the Department of History by April 15. The department will submit the best essays for a selection for award, to an outside judge, who may withhold the prize if no essay submitted reaches a sufficiently high standard.

Prizes

THE GERMAN LITERARY PRIZE is awarded annually by the Goethe Lodge of Burlington for general excellence in German.

THE HOWARD PRIZES were provided by a bequest of one thousand two hundred and fifty dollars from Mrs. Hannah T. Howard of Burlington, the income of which is awarded in prizes to students in the College of Arts and Sciences for excellence in the work of the freshman year.

THE ELWIN LEROY INGALLS PRIZE is provided from a fund established in 1934 to honor Elwin Leroy Ingalls of the Class of 1896, who had then completed twenty years of continuous service as State 4-H Club Leader. It is awarded annually by the 4-H Club Department of the Vermont Extension Service to a University student of outstanding merit as shown in character, 4-H Club record, and scholastic attainment in college.

THE MABEL NELSON JACOBS SCHOLARSHIP CUP is annually awarded to the custody of that sorority, the members of which have won the highest scholastic standing for the preceding year. The cup was provided by Mrs. H. J. Nelson in memory of her daughter, Mrs. Mabel Nelson Jacobs of the Class of 1899.

THE KENT PRIZE IN ELECTRICAL ENGINEERING was established by A. Atwater Kent, of Philadelphia. The fund of five thousand dollars provides an income which is "awarded as a prize each year at Commencement to that member of the senior class in Electrical Engineering who, during his junior and senior years, in the opinion of the faculty teaching Electrical Engineering, has shown the greatest progress in judgment and general grasp of the broad principles of Electrical Engineering and in development of personality, and who shows the greatest promise of success in this field."

The names of the winners of this prize are placed on a tablet given by Mr. Kent and which is located in the Waterman Building.

THE KIDDER MEDAL is provided by the income of a fund of four hundred dollars, established in memory of Dr. F. T. Kidder of Woodstock, an alumnus of the Class of 1880 and a trustee of the University. The specially engraved gold medal is awarded at Commencement to the male student ranking first in character, leadership, and scholarship. The selection is made by a committee representing all the faculties.

THE LAWRENCE DEBATING PRIZES were established by Edwin Winship Lawrence, of the Class of 1901. The first group of prizes is established in memory of the donor's brother, Robert Ashton Lawrence, '99, and is offered annually to students who in the judgment of the Department of Speech exhibit the greatest proficiency in debate. The ten thousand dollar fund provides three annual prizes.

The second group of prizes, established in memory of the donor's brother, Robert Ashton Lawrence, '99, and his father, George Edwin Lawrence (Middlebury College '67), will be awarded to the three students participating in a joint debate between representatives of the University of Vermont and Middlebury College, who in the opinion of the judges chosen show the greatest proficiency in this debate. These prizes are derived from an endowment of five thousand dollars.

If debating ceases at the University, the income from these funds may be used to assist worthy students.

THE EDMUND F. LITTLE CUP is provided by the income from a fund established by Arlington P. Little, Class of 1901. It is awarded annually for meritorious work in mechanic arts.

THE LOYAL LEGION MEDAL is presented annually at Federal Inspection by the Vermont Commandery of the Military Order of the Loyal Legion to the most proficient junior cadet of the Reserve Officers' Training Corps.

THE NU SIGMA NU AWARDS are given annually in the College of Medicine to the outstanding students in the freshman and junior classes.

THE PHELPS PRIZE IN CIVIL ENGINEERING is derived from a fund of more than nine hundréd dollars. It was endowed in memory of Edward Haight Phelps of the Class of 1872, by his father, Edward J. Phelps. The prize may be awarded by the Department of Civil Engineering each year at Commencement to a graduate of that year in Civil Engineering who has exhibited conspicuous merit in professional studies, and high and noble traits of personal character. A special certificate will accompany the prize, indicating the conditions upon which it has been awarded. In the event that no award is made in any year, the same amount of money will be expended in the purchase of books on the subject of Civil Engineering for the Library.

THE WADSWORTH RAMSEY-SMITH TROPHY AND PRIZE, in the amount of ten dollars, are awarded annually on Founder's Day to the outstanding senior cadet of the Reserve Officers' Training Corps. The name of the senior is inscribed on the trophy, a saber, which is maintained by the Military Department. This award is presented by Mrs. Wadsworth Ramsey-Smith, in honor of her husband, Colonel Ramsey-Smith.

THE SEYMOUR HORTICULTURAL FUND, amounting to twenty-five hundred dollars, was given by William W. Seymour in memory of his father, Henry E. Seymour of the Class of 1835. The income from the fund is used for the library and other expenses of the Horticultural Department,

Prizes

and for a prize to that member of the senior class who has done the best work in original horticultural research.

THE KIRBY FLOWER SMITH LATIN PRIZE is derived from a three thousand dollar fund established by his wife as a memorial to Kirby Flower Smith of the Class of 1884. An award is made annually to the student having the highest standing in second-year college Latin.

THE HANNAH G. SOLOMON PRIZE is awarded by the Burlington Section of the National Council of Jewish Women to the senior woman who has exhibited in the highest degree the qualities of scholarship, leadership, and service.

THE SONS OF THE AMERICAN REVOLUTION MEDALS have been presented annually since 1933 by the Vermont Society, Sons of the American Revolution, one to the member of each class in the Reserve Officers' Training Corps who is outstanding in character, conduct, leadership, and in theoretical and practical knowledge of the year's course. These medals are of nation-wide standard pattern. The stated purpose of the award is to keep before the minds of the young men of today, in order that they may be encouraged to exemplify them in practice, those qualities and characteristics upon which our nation was founded and has been perpetuated.

THE RUSSELL O. SUNDERLAND MEMORIAL TROPHY is awarded annually at Founder's Day to that man of the senior class who throughout his college course has best exemplified those qualities of character, leadership and persistence in overcoming obstacles, which were outstanding traits in the life of the late Russell O. Sunderland of the class of 1938. This is a permanent trophy upon which the name of the recipient is engraved annually. The Boulder Society gives a suitable personal trophy to each student who receives the Sunderland Award.

THE JOHN M. THOMAS TROPHY is awarded annually to that senior student who most closely exemplifies the character of John M. Thomas.

THE VETERANS OF FOREIGN WARS PLAQUE AND MEDAL are awarded annually at the Federal Inspection to the freshman cadet of the Reserve Officers' Training Corps who demonstrates the highest proficiency in leadership, drill, and military science. His name is inscribed upon the Veterans of Foreign Wars Plaque, which is maintained by the Military Department. The medal and plaque are presented by the Howard Plant Post 782 of the Veterans of Foreign Wars.

THE GEORGE H. WALKER DAIRY PRIZE is derived from a permanent fund of two thousand dollars, donated by George H. Walker, Boston, Mass., one of the founders of the Walker-Gordon Milk Company. It is awarded annually by faculty vote to a member of the graduating class of the College of Agriculture who has pursued a course either in Dairy Production or Dairy Manufactures, and who has shown conspicuous ability in the studies pertaining to Dairy Husbandry, and especially in milk production and marketing, and who furthermore exhibits high and noble traits of character.

In the event that no award is made by the faculty in any given year this income is spent for apparatus to be used for instructional purposes in market milk making or distribution, or for books dealing with Animal or Dairy Husbandry. The apparatus or books are marked as being derived from the George H. Walker Prize Fund.

THE WASSON ATHLETIC PRIZE is derived from an endowment of two hundred and fifty dollars, given by Mrs. Pearl Randall Wasson in memory of her husband, Dr. Watson L. Wasson, '01. The income of the fund is used for the purpose of giving a prize "to the member of Senior class who has maintained the highest standard of academic scholarship and athletic attainment," as determined annually by the University Council.

THE WOODBURY MEDICAL PRIZES are derived from a fund of one thousand dollars created by Mrs. Pauline S. Woodbury in memory of her husband, Dr. Urban A. Woodbury of the Class of 1859. The first prize is awarded annually to the student who, upon graduation, has shown the greatest proficiency in the clinical subjects in his senior year. The second prize is awarded to that member of the sophomore class who has received the highest standing of the class in all subjects of the freshman and sophomore years.

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CALENDAR

SPRING SEMESTER, 1952

Enrollment
Classes begin
Kake Walk (no classes) February 22, 23
Spring Recess
Founder's Day Convocation May 1
Memorial Day (holiday)
Examinations
through June 10
Commencement June 15

SUMMER SESSION, 1952

July 7 - August 16

FALL SEMESTER, 1952

Preliminary DaysSeptember 12-16
Enrollment (new students) September 17
Enrollment (all others)September 18
Classes begin
Mid-term reports due November 8
Thanksgiving Recess 11 a.m., November 26 through November 30
Christmas Recess11 a.m., December 20 through January 4
Examinations January 16 through January 28

Inter-semester Recess January 29 through February 1

SPRING SEMESTER, 1953

Enrollment
Classes begin
Kake Walk (no classes) February 20, 21
Mid-term reports due
Spring Recess
Founder's Day Convocation
Memorial Day (holiday)
Examinations
through June 9
CommencementJune 14

Calendar

1952

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