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University of Vermont, College of Medicine Bulletin

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CALENDAR

1953 - 1954

CALENDAR FOR 1ST AND 2ND YEARS:

1ST QUARTER:   September 14-November 9
                 Nov. 9-14  Examinations.

2ND QUARTER:   November 16-January 16
                 Nov. 25, 11 a. m., through Nov. 29. Thanksgiving recess.
                 Dec. 19, 11 a. m., through Jan. 3. Christmas recess.
                 Jan. 4, class work resumed.
                 Jan. 18-23  1st year — no classes.
                 Jan. 25-30  1st year — examinations.
                 Jan. 18-30  2nd year — examinations.

3RD QUARTER:   February 1-March 20
                 Feb. 1, class work begins.
                 Feb. 5, enrollment and payment of fees.
                 March 22-27 Examinations.
                 March 27, noon, to April 5. Spring vacation.

4TH QUARTER:   April 5-May 29
                 May 31, Memorial Day.
                 June 1-5  1st year — no classes.
                 June 7-12  1st year — examinations.
                 June 1-12  2nd year — examinations.

CALENDAR FOR 3RD YEAR:

School year from Sept. 14, 1953 to Sept. 13, 1954, with four weeks of vacation:
                 December 19, noon, through December 27;
                 June 14-20; August 28-September 13.

CALENDAR FOR 4TH YEAR:

June 29  Enrollment and Convocation.
June 30  Hospital work begins.
December 20-January 4  Christmas Recess.
June 1-5  Examinations.
June 13  Graduation.
INDEX OF CONTENTS

Administration .................................................. 5
Admission ......................................................... 40
  Requirements for ........................................... 40
  To Advance Standing ........................................ 42
Board of Trustees ............................................... 5
Calendar ......................................................... 3
Clinical Facilities .............................................. 9
College of Medicine Building .................................. 7
Departments of Study .......................................... 14
  Anatomy ...................................................... 14
  Bacteriology ................................................ 14
  Biochemistry ............................................... 17
  Medicine ..................................................... 20
  Obstetrics and Gynecology ................................ 28
  Ophthalmology - Otolaryngology - Rhinology ............ 30
  Pharmacology ............................................... 32
  Physiology-Biophysics ...................................... 33
  Surgery ....................................................... 35
Enrollment ...................................................... 42
Faculty ........................................................ 56
Fees and Expenses ............................................. 43
Graduates—Internship Appointments 1953 .................... 68
History ........................................................ 6
Honors and Prizes ............................................. 44-70
Library ........................................................ 10
Medical Fraternities and Societies ......................... 55
Medical College Program ..................................... 12
Miscellaneous .................................................. 11
Museum ........................................................ 10
Officers of the U. V. M. Medical Alumni Association ....... 55
Osler Clinical Society ......................................... 55
Photographic Facilities ....................................... 10
Register of Students .......................................... 71
Requirements for Advanced Standing ....................... 42
Regulations for College of Medicine ....................... 46
Requirements for Graduation ................................ 48
Schedules of Classes .......................................... 49-53
Scholarships and Loan Funds ................................ 45
Standing Committees .......................................... 67
Summary of Studies 1953-1954 ................................. 54
ADMINISTRATION

THE BOARD OF TRUSTEES

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THE COLLEGE OF MEDICINE

GEORGE ANTHONY WOLF, JR., B.S., M.D. Dean
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CORNELIA JOSEPHINE BAYLIES, A.B. Administrative Assistant
MRS. MARGARET M. HINMAN, B.S. Secretary for Admissions
HISTORY

The College of Medicine of the University of Vermont is one of the oldest institutions of its kind. The University of Vermont was the first state university or state college in the United States to have a medical department. A lecturer on Chirurgery and Anatomy was appointed by the Trustees of the University Corporation on August 16, 1804. The first full and regular course of lectures, however, was not given until the fall of 1822. In 1829 a Medical College building was erected at the south end of the campus. In 1836 the College was abandoned because of the death of some of its leading spirits and for lack of students. There had been graduated up to that time one hundred and sixteen men.

The reorganization and successful re-establishment of this school were due chiefly to the efforts of Dr. S. W. Thayer, then a practitioner at Northfield. His efforts date back to 1840 and finally were successful in 1853. Dr. Levi W. Bliss of Bradford was also active in securing the reopening of the College. The prosperity of the newly organized department in 1854 soon became manifest, and a material enlargement of the old Medical College building at the head of Main Street was demanded. A sum was raised and the necessary improvements made. In 1870 the citizens of Burlington contributed an additional sum of two thousand five hundred dollars to enlarge the building further by the addition of a wing and to increase the seating capacity of the two lecture rooms. In 1884 the late John P. Howard generously gave a commodious building at the head of Pearl Street which was occupied first in 1885.

Until 1899 the relation of the College of Medicine to the University was nominal. Its reorganization at that time made it a coordinate department of the University under the control of the Board of Trustees and its facilities for teaching and study were increased. The faculty was enlarged and teaching facilities were improved. In 1903 the college year was lengthened to seven months and again in 1907 the teaching year was increased to thirty weeks of instruction. In December, 1903, the building which had been occupied by the College for twenty years was destroyed by fire. A new building was begun in August, 1904, and dedicated in June, 1905.

In 1911 the faculty of the College of Medicine was reorganized and became an integral part of the University. In 1912 one year of college work was required for admission and the College of Medicine year was made equal in length to that of the academic college. Two full years of college work were required for admission in 1917. A minimum of three years of college work is now
required. In 1920 women were admitted to the College of Medicine. In recent years all students have the baccalaureate degree upon admission to the College of Medicine. In selected instances students at the University of Vermont undergraduate college may receive their Bachelor's degree after three years of undergraduate work and one year as a medical student.

TEACHING FACILITIES

THE COLLEGE OF MEDICINE BUILDING

The College of Medicine occupies a building on Pearl Street at the north end of the College Green. The Administrative Offices of the College and the laboratories of Histology, Pathology, and Bacteriology are located on the first floor of the building. An amphitheatre, with a seating capacity of one hundred and fifty, is on this floor. There is a smaller amphitheatre on the second floor. The Library of the College of Medicine, a division of the University Library, occupies the southwest portion of the second floor. The offices and laboratories of the Department of Biochemistry and of the Division of Experimental Medicine are also on this floor. On the third floor are the Departments of Anatomy, and Physiology and Biophysics. The Department of Anatomy has a special museum and other facilities for teaching, made possible by generous contributions from Alumni of the College of Medicine. A modern refrigeration unit insures excellent preservation of specimens. The teaching museum includes a permanent display of cross sections of a complete male body, together with additional head sections and female pelvic sections, housed in glass-topped containers. The student laboratory used by the Department of Pharmacology and the Department of Physiology and Biophysics is equipped for all types of teaching.

All departments are equipped with laboratories for research and special technical work. The animal house, adjacent to the College of Medicine, is used by all departments for research and student teaching. In 1947 an additional building was constructed to provide increased animal quarters for expansion of the work in the field of cancer research. A constant temperature unit is available to all departments for teaching and experimental work.

A building adjacent to the College of Medicine contains the offices and laboratories of the Department of Pharmacology and a medical student lounge.
THE MARY FLETCHER HOSPITAL. This general hospital has 283 beds and 37 bassinets. It has been associated with the College of Medicine as a teaching hospital since 1879, and has all types of medical and surgical services. The hospital has a yearly average of approximately 6,000 admissions. At least two-thirds of the patients are available for teaching purposes through the use of free and part-pay beds and the use of private cases by attending staff men as members of the faculty of the College of Medicine. The hospital is approved by the American Medical Association for intern training and for residencies in medicine, radiology, surgery, anesthesia, pathology, pediatrics, obstetrics-gynecology and urology.

THE BISHOP DEGOESBRIAND HOSPITAL. The Bishop DeGoesbriand Hospital is a modern and completely equipped general hospital located on the corner of Pearl and Prospect Streets west of the College Green and adjacent to the College of Medicine. The present capacity of the hospital is 200 beds and 35 bassinets. All the clinical services are represented in the approximately 6,000 annual admissions.

Medical students are under the supervision of the attending staff who are members of the faculty of the College of Medicine.

The Bishop DeGoesbriand Hospital offers intern training and residencies in medicine, surgery, obstetrics, gynecology, pediatrics, anesthesia, urology, pathology and radiology, with approval by the Council on Medical Education and Hospitals of the American Medical Association.

Fourth-year students spend periods of time at the following institutions under the supervision of a preceptor who reports to the College of Medicine.

Fanny Allen Hospital (Winooski)—An 86-bed general hospital.

Putnam Memorial Hospital (Bennington)—A 96-bed general hospital.

Springfield Hospital (Springfield)—A 47-bed general hospital.

Rutland Hospital (Rutland)—A 140-bed general hospital.

Brightlook Hospital (St. Johnsbury)—A 55-bed general hospital.

Trudeau Sanatorium (Trudeau, N. Y.)—A 200-bed tuberculosis hospital. There is also an affiliated research institution.
Veterans Administration Hospital (Sunmount, N. Y.)—A 564-bed tuberculosis hospital, with an active research program.

Vermont State Hospital (Waterbury)—A 1,125-bed state psychiatric hospital.

All of the above institutions are approved by the Joint Committee on Accreditation.

The Elizabeth Lund Home—A home for 24 unmarried mothers, used for the teaching of normal obstetrics and newborn care.

St. Joseph’s Orphanage—Ten to fifteen children are observed in weekly sick call.

Children’s Home—Approximately 12 children are observed under similar conditions.

AMBULATORY PATIENT AND HOME CARE FACILITIES

THE BURLINGTON FREE DISPENSARY. This Dispensary is located in the Howard Relief Building at 174 Pearl Street (in the center of Burlington) and is supported jointly by the City of Burlington and the College of Medicine. During the previous year, 7,189 visits were made to the Dispensary. Surgical, mental health, pediatric, dermatological, speech and hearing, and crippled children clinics, and a medical screening clinic operate. Students work in these clinics under the supervision of medical college staff members.

CITY SERVICE. Fourth-year students are assigned to the home care service. Home visits day and night are made with medical resident physicians under the supervision of staff members. There were 7,624 such visits made last year.

DURFEE MEMORIAL CLINIC. The Clinic is located at the Mary Fletcher Hospital. Approximately 6,000 free and part-pay patient visits are referred by the Free Dispensary and practicing physicians and studied in general and specialty clinics under the supervision of medical college staff specialists.

BISHOP DEGOESBRIAND OUTPATIENT DEPARTMENT. Three thousand visits to general and specialty clinics are made annually. These clinics are staffed by University of Vermont faculty members who supervise the students.
PRECEPTORSHIPS IN GENERAL PRACTICE. Selected practitioners about the State accept fourth-year students in their homes and offices for 2 weeks of experience in general practice.

MEDICAL LIBRARY

The Medical Library contains the standard reference works in medicine and cognate fields, up-to-date texts and monographs, and files of back journals. Over 300 subscriptions to current journals are received regularly. From time to time the library acquires valuable additions from private gifts.

The research facilities of the library are extended by interlibrary loans of original materials, photostats, and microfilms. The University Library collections, numbering about 200,000 volumes, are available to medical students and staff.

The location of the collection in the College of Medicine is adjacent to classroom facilities and within short walking distance of the two main teaching hospitals.

MEDICAL MUSEUM

The College of Medicine maintains a museum with a collection of pathological specimens for use in teaching.

STATE LABORATORY FACILITIES

In addition to the teaching laboratories of the College of Medicine, the new laboratories of the Vermont State Department of Health are available for bacteriological, diagnostic, serological, medico legal, food and water testing.

Through close cooperation between the Vermont State Department of Health and the College of Medicine, staff members of the former have faculty appointments and give instruction to students in preventive medicine and public health. This arrangement is designed to promote the common interests of the two institutions and to educate the medical student for the essential part he must play as a practicing physician in the maintenance of public health. It helps to integrate the teaching of clinical medicine, preventive medicine, and public health and to emphasize the relationship of the individual, as a clinical entity, to the population as a whole.

DIVISION OF PHOTOGRAPHY

The division of photography has photographic equipment and laboratories at the College of Medicine for photomicrographic
and other types of photographic work. This division has a full-time staff whose services are available to all departments of the College of Medicine and the local hospitals.

MISCELLANEOUS

The College of Medicine, the Vermont Cancer Society, the Vermont Heart Association, the State Medical Society and the State Department of Health cooperate in giving refresher and extension courses to men in the general practice of medicine.

The College of Medicine conducts a diagnostic tumor clinic in cooperation with the Cancer Division of the Vermont State Department of Health and the Mary Fletcher Hospital. This clinic is under the general direction of the Tumor Clinic Board composed of faculty members of the College of Medicine. The responsibility for organization, operation and policy is vested in this Board.

Patients are referred to this clinic by practicing physicians throughout the State. The close cooperation between the faculty of the College of Medicine, the Vermont Cancer Society, the practicing physicians throughout the State, and the Vermont State Department of Health, is another instance of the public service rendered by the University of Vermont through its College of Medicine, in fields related to the education and protection of the public. The clinic gives practical experience in the field of cancer control to medical students who may later become practicing physicians in the State.

The College of Medicine takes an active part in the preventive work done in tuberculosis, mental disease, diseases of the eyes, and corrective work for crippled children. The College furnishes quarters and diagnostic facilities for various of these organizations.

Clinics for the diagnosis and treatment of disease conditions are staffed by the College, in cooperation with local hospitals, for patients who cannot afford to pay for such services and who may be referred to the clinics by their physicians.

In cooperation with the College of Medicine, the Vermont Association for the Crippled, maintains a speech and hearing clinic in Burlington. In addition, students observe the rehabilitation team at work in this organization's cerebral palsy clinic. The specialists in this field, who attend the clinic, are members of the faculty of the College of Medicine. In all health activities throughout the State, the College of Medicine takes an active part.
MEDICAL COLLEGE PROGRAM

GENERAL PLAN OF THE CURRICULUM

FIRST YEAR: Anatomy, physiology and biochemistry are integrated in such a fashion that topics are considered simultaneously by all departments insofar as possible. Thus when the abdomen is being dissected, the physiology of the gastro-intestinal system and the biochemistry of digestion are being considered at the same time. A course in psychobiology includes lectures, moving pictures and discussion. Small groups of 10 students are met by the dean for informal discussion of general topics related to medicine and medical school chosen by the students. These exercises are conducted with the support of the Lamb Foundation.

SECOND YEAR: Bacteriology, pathology, pharmacology, clinical pathology, surface anatomy, and introduction to clinical subjects including physical diagnosis and preventive medicine are covered.

THIRD YEAR: A clinical clerkship divided into four quarters is conducted from September to the following August. One half of the year is devoted to medicine and pediatrics but included in this period are clinical conferences, discussion groups, and field trips covering preventive medicine, psychiatry, dermatology, radiology, and ophthalmology. Limited responsibility for and observation of patients in the two local hospitals are the primary activities. Rounds, tutorial sessions, and informal conferences are held. The third quarter includes a clerkship on surgery with clinical conferences for the students in neuro-surgery, otolaryngology, clinical surgery, orthopedic surgery, and surgical pathology. Teaching is accomplished by tutorial instruction, rounds, staff conferences and operating room work. The final quarter is a clerkship in obstetrics and gynecology, including tutorial instruction, ward, delivery and operating room experience. Manikin work, conferences, rounds, tutorial sessions, and sessions with fresh gynecological pathological material are included.

FOURTH YEAR: This year includes further general hospital and specialty hospital experience and, in addition, experience in the care of the ambulatory patient. Seniors attend school from September to June. They are given increasing responsibility, live at general hospitals outside of Burlington, but are supervised by Staff members. Tuberculosis and psychiatric specialty hospitals are included in the rotation program. Ambulatory patient service is experienced in the Burlington Free Dispensary (operated by the College of Medicine), in the outpatient departments of the gener-
al hospitals, on home care visits, and during preceptorships with general practitioners.

All of the usual medical specialties are represented including mental hygiene clinics and cerebral palsy clinics.

The curriculum is not static and an active curriculum committee is meeting continually to evaluate the present curriculum and plan changes.
THE DEPARTMENTS IN THE
COLLEGE OF MEDICINE

THE DEPARTMENT OF ANATOMY

CHESTER ALBERT NEWHALL, A.B., M.D., Professor of Anatomy, Chairman of Department

HOVEY JORDAN, PH.B., M.S., M.A., Professor of Histology and Embryology

FRED WILLIAMS DUNIHUE, A.B., M.S., PH.D., Professor of Histology and Embryology

WALTER ALVA STULTZ, A.B., PH.D., Associate Professor of Anatomy

This Department is concerned with teaching undergraduate students the fundamental morphology of the human body correlated with function. In addition, its research projects are concerned with the histology of the kidney in relation to pressor and depressor substances, the investigation of certain anomalies and a study of the nutritional status of residents of the northeast area.

Staff members have enjoyed training and teaching experience at Harvard, Yale, New York University, the Medical College of South Carolina, the Medical College of Georgia and the University of Pennsylvania. All staff members are full time in the Department of Anatomy.

The undergraduate teaching program provides for the microscopic study of tissues, dissection of the cadaver, identification of all of the more important structures of the human body utilizing a complete series of cross sections, surface studies and interpretations of radiograms.

First-year courses for medical students are given in histology (including embryology), gross anatomy and neuro-anatomy. In the second year, a one-semester course is given in surface and radiological anatomy. The facilities of the laboratory are available to interns, residents and nurses.

Anatomy is taught to x-ray technicians and work in histology leading to credit for a graduate degree other than the M.D. can be arranged. The members of the staff cooperate in extension activities for postgraduate physicians and the lay public.

THE DEPARTMENT OF BACTERIOLOGY AND PREVENTIVE MEDICINE

FRED W. GALLAGHER, A.B., M.A., PH.D., Professor of Bacteriology, Chairman of Department
The Department attempts to impart to undergraduate medical students a fundamental understanding of infectious disease processes and the response of the body to these diseases. The practical control of infectious disease through public health measures and agencies is surveyed. Attempts are made to indoctrinate the student with the concept that medical practice should embrace the prevention of disease, as well as its treatment. Research in virology and bacteriology is being carried on.

The educational program is conducted by three full-time and five part-time teachers. Six of these hold doctors' degrees and have received training and experience at Harvard, Yale, Ohio State, Michigan State, Grand Rapids Veterinary and the University of Vermont.

Bacteriology for undergraduate medical students will be taught in the second year. The subject matter embraces a brief survey of the general biological aspects of bacteriology including essential techniques, a consideration of the principles of infection and the resistance of the body to disease, a study of the various infectious agents and their relation to disease processes. Immunology and serology are treated as integral parts of the course. Teaching is accomplished through lectures and laboratory work.

Undergraduate preventive medicine and public health are taught in the second and third years. In the second-year lectures, demonstrations and field trips introduce the student to the subject and the organization and function of the various agencies concerned with the health of the community. Methods used to control the spread of communicable disease and problems relating to the overall health and general well-being of the population are considered in this course.
A period of time is devoted to oral hygiene and dental medicine in an attempt to correlate medico-dental problems. In the third year, small groups meet for weekly discussions during the two quarters assigned to medicine. These exercises deal with the natural history of disease as a basis for developing a preventive approach to disease control. Communicable disease, diseases of later life, long term illnesses, and cancer, for example, are considered individually and in detail. Industrial medicine is discussed and illustrated by demonstrations at industrial plants. Field trips are made to institutions in the state concerned with rehabilitation and other community activities in the health field. In the fourth year no formal courses in preventive medicine exist. However, the clinical teachers consider the preventive aspects in their presentations of disease. The students are assigned to the home care service and develop a liaison with the Howard Family Service Society, Visiting Nurses Association, and the Vermont Association for the Crippled. In addition, they come in contact with the Vermont Tuberculosis Association and the various divisions of the State Health Department.

The final fifteen-month period of the curriculum in medical technology, described in the bulletin of the University of Vermont, is under the supervision of this Department of the College of Medicine and is devoted to clinical studies. Courses are given at the College of Medicine and practical laboratory experience is obtained in the laboratories at the Mary Fletcher Hospital.

A course in bacteriology for dental hygiene students consisting of two hours of lecture and four hours of laboratory per week is given.

The full-time staff participates in clinical activities at the local hospitals. The Chairman has responsibility for the bacteriological laboratories at the Mary Fletcher Hospital and attends clinical conferences.

Formal graduate study in bacteriology consists of the following courses:

**Graduate Courses**

200. *Medical Bacteriology.* First semester. 7 credit hours.

201. *Special Problems in Bacteriology.* Minor investigations in bacteriology designed to serve as an introduction to research.

Prerequisite—Medical bacteriology or its equivalent. 2 credit hours.

202. *Special Problems in Immunology.* Minor investigations in immunology and serology designed to serve as an introduction to research.
Prerequisite—Medical bacteriology or its equivalent. 2 credits.

203. Research. Original investigations intended to culminate in a thesis for a Master's degree. Prerequisite—Courses 201 and 202. Credit hours to be arranged.

204. Seminar. Attendance at the departmental seminar. 1 credit hour.

THE DEPARTMENT OF BIOCHEMISTRY

HAROLD BARNARD PIERCE, B.S., M.S., PH.D., Professor of Biochemistry, Chairman of Department

WILLIAM VAN BOGAERT ROBERTSON, M.E., PH.D., Professor of Biochemistry

MERTON PHILIP LAMDEN, B.S., PH.D., Associate Professor of Biochemistry

ARNOLD HAROLD SCHEIN, B.S., PH.D., Associate Professor of Biochemistry

ETHAN ALLEN HITCHCOCK SIMS, B.S., M.D., Assistant Professor of Biochemistry

The primary aim of the Department is to teach undergraduate students the subject material in biochemistry. Specific research is being conducted on human nutrition, protein metabolism as related to purines and pyrimidines, enzymes, connective tissue, endocrinology, and water and electrolyte balance.

The staff is made up of members who prior to coming to the University of Vermont have served as teachers and investigators at the University of Rochester, the University of Iowa, Yale, Massachusetts Institute of Technology, and the National Cancer Institute. Two of the men have been certified by the American Board of Clinical Chemistry and one man by the American Board of Nutrition. Senior staff members belong to the usual professional societies in the fields of chemistry and medicine. There are five senior and five junior members. Two members have joint appointments with the Department of Medicine.

Medical biochemistry is taught to undergraduate medical students throughout their first year by means of lectures, conferences and laboratory. The work is integrated with that in physiology and anatomy so that systems, insofar as possible, are considered concurrently by the three disciplines. Exercises are conducted
upon man and animal wherever feasible. A preceptor system exists in that the class is divided into four sections of twelve to fourteen students. Instructors of professorial rank meet with members of their groups to give assistance if needed. Members of the Department give lectures in other departments when the subject matter is related to biochemistry.

Courses in biochemistry are given to medical technologists, to students working for their baccalaureate degree in nursing, and to students in dental hygiene.

Members of the staff participate in clinical conferences in the local hospitals.

Graduate training includes the following:

Graduate Courses

200. Medical Biochemistry

The course is designed to afford students an insight into the chemical transformations which take place in the living body, with special reference to man. The topics discussed are enzymes, digestion, absorption, intestinal putrefaction and feces, respiratory and cellular metabolism, blood, urine, tissues, body fluids, water and electrolyte balance, internal secretions, foods, nutrition, vitamins. Laboratory work is largely quantitative, covering the above topics.

Lectures and conferences, 52 hours, first semester; 68 hours, second semester; laboratory, 64 hours each semester. 10.5 credit hours.

201. Enzymology

The course will present a survey of enzymes including: classification, general properties and physical chemistry; methods of isolation, purification and assay; individual enzymes and their integration in biologic phenomena.

Lectures and seminars 2 x 1.5 hours per week, laboratory 1 x 4 hours per week, 15 weeks. Open to all properly qualified students. 5 credit hours.

202. Biochemical Preparations

Students taking this course will synthesize and prepare from natural sources important biologic compounds. These substances may be subjected to chemical and physiological examination for identity and purity. With the assistance of the staff, the student will review the literature and choose suitable laboratory methods.

Laboratory, 4 hours per week, 15 or 30 weeks. Open to all properly qualified students. 2 credit hours per semester.
203. Research
This course is open to graduate students in the Department of Biochemistry. The results of the original investigations will be used as the basis for the thesis required for the degree of Master of Science.
Credit hours to be arranged. Open to all properly qualified students having a Bachelor's Degree in Chemistry.

204. Food and Nutrition
Topics to be discussed will include composition of foods, processing and preservation of foods, the nutrition problem as it exists locally and throughout the United States, functions and requirements of dietary components and nutrition in health and disease.
Lectures and seminars, 2 x 1 hour per week. Open to all properly qualified students. 2 credit hours.

205. Intermediary Metabolism
Lectures and seminars dealing with current concepts of the internal transformations of amino acids, carbohydrates and lipids. Methods of investigating intermediary metabolism are evaluated.
Among the topics discussed are: dynamic state of the body constituents, application of isotopes to the study of metabolic pathways, and the integration of the metabolism of the proteins, carbohydrates and lipids.
This course is presented in cooperation with the Division of Experimental Medicine. Open to all properly qualified students.
Lectures and seminars. 2 x 1.5 hours per week. 1st semester. Laboratory 1 x 4 hours per week. 5 credit hours per semester.

206. Seminar
This course is designed to review recent developments and current literature in the various fields of Biochemistry and is presented in cooperation with the Department of Medicine.
1 x 1 hours per week. 2nd semester. Hours to be arranged. Open to all properly qualified students. 1 credit hour.

207. Vitamins in Metabolism
A study of the absorption, availability and biosynthesis of vitamins, the role of vitamins in intermediary metabolism, vitamin interrelationships, vitamin-hormone interrelationships, analogs and antivitamins, avitaminoses in man and animal, and vitamin requirements.
Laboratory experiments are designed to give experience in chemical, biological and microbiological assay methods. Lectures and seminars, $2 \times 1.5$ hours per week. Laboratory, $1 \times 4$ hours per week. 1st semester. Open to all properly qualified students. 5 credit hours.

THE DEPARTMENT OF MEDICINE

ELLSWORTH LYMAN AMIDON, B.S., M.D., M.S. (Med.), Professor of Medicine, Chairman of Department

PAUL KENDRICK FRENCH, PH.B., M.D., Professor of Clinical Medicine

GEORGE ANTHONY WOLF, JR., B.S., M.D., Professor of Clinical Medicine

HIRAM EUGENE UPTON, B.S., M.D., Associate Professor of Clinical Medicine

SINCLAIR TOUSY ALLEN, JR., A.B., M.D., Associate Professor of Medicine

JOHN HARDESTY BLAND, A.B., M.D., Assistant Professor of Medicine

ELBRIDGE EUGENE JOHNSTON, M.D., Assistant Professor of Medicine

GORDON MONTGOMERY MEADE, M.D., Assistant Professor of Medicine

HAROLD EDWARD MEDIWESTSKY, B.S., M.D., Assistant Professor of Clinical Medicine

ROGER SHERMAN MITCHELL, M.D., Assistant Professor of Medicine

ETHAN ALLEN HITCHCOCK SIMS, B.S., M.D., Assistant Professor of Medicine

CHRISTOPHER MARLOWE TERRIEN, M.D., Assistant Professor of Clinical Medicine

THOMAS WRIGHT MOIR CAMERON, M.A., PH.D., D.SC., Visiting Professor of Tropical Medicine

RICHARD WALKER AMIDON, B.S., M.D., Instructor in Medicine

ROBERT PEASE SMITH, A.B., M.D., Instructor in Medicine

KATHERINE ELLA MCSWEENEY, A.B., M.A., M.D., Instructor in Clinical Medicine

WILLIAM ARTHUR PRATT, B.S., M.D., Instructor in Clinical Medicine
LEONARD S. KAPLOW, B.S., Laboratory Instructor in Clinical Pathology

JOSEPH WORCESTER SPELMAN, B.S., M.D., Lecturer in Medical Jurisprudence

In the process of training in medicine, every attempt is made to approach the disease from the standpoint of the basic abnormality in structure and function. In this manner the progress from the preclinical to the clinical subjects is uninterrupted. With a sound basic knowledge, the understanding of accurate treatment and management is more apt to follow. Members of the staff must be alert to new discoveries and be of an investigative state of mind, able to lead and stimulate the student. Both the student and instructor together may thus undertake special studies. Current investigations include renal function in normal young women, management of electrolyte balance and clinical testing of selected drugs. With aid from the Vermont Heart Association, a cardiopulmonary function laboratory has been established.

The staff is composed of twenty-seven members, four of whom are geographic full time. The chairman of the Department is also the Medical Director of the Mary Fletcher Hospital and is active in executive affairs of the American College of Physicians. The staff members have received their training in most of the more prominent medical centers throughout the nation. Foreign universities, Yale, Cornell, McGill, Harvard, Rochester, the University of Pennsylvania, Columbia and other universities have participated in the training of our staff. Senior members are board certified.

Students begin their intimate contact with members of the Department in their second year. During this period they are given lectures of an introductory nature on the pathologic physiology of certain diseases. They examine both normal and abnormal subjects during this period. A correlation conference is held for these students. The third-year students are taught directly on patients by means of rounds, conferences, tutors and lectures. Medicine in the last year is taught in the outpatient clinics, certain sanatoria, hospitals and in the patients' homes.

A fully approved intern and resident training program is maintained, the latter serving to fulfill the necessary training to qualify for the American Board of Internal Medicine.

Postgraduate training is offered in several ways: by weekly conferences and yearly postgraduate assemblies. In addition, qualified candidates may receive advanced training during varying periods of residence. Members of the staff spend considerable
amounts of their time giving lectures and holding conferences throughout the state and at national meetings.

DIVISION OF CLINICAL PATHOLOGY

RICHARD HENRY SAUNDERS, JR., B.A., M.D., Assistant Professor of Clinical Pathology and Medicine, Chairman of Division.

The aim of the Division is to acquaint the students with the tests available in the clinical laboratory, the value and limitations of these tests and the interpretation of results. Emphasis is placed on the clinical application of laboratory methods and the integration of the data obtained with other clinical findings. This Division is also actively engaged in hemotologic research and participates in the supervision of clinical pathology in the laboratories of one of the teaching hospitals.

The staff consists of the chairman and three part-time assistants who participate in the laboratory instruction during the second-year course and in the hospital laboratories during the clinical years. The staff has been trained at Rochester, Yale, and the New England Medical Center.

Hematology and parasitology are introduced in the second year, as are techniques of examination of urine, gastric contents, cerebrospinal fluid and other body fluids. Classroom instruction by lecture and laboratory comprise the course.

A visiting professor with considerable experience in the subject of tropical medicine presents a series of lectures to each class. The third and fourth-year material is covered as an integral part of the instruction in clinical medicine in the hospitals and clinics. In addition, conferences are held weekly during the third year to emphasize the diagnostic use of laboratory tests.

The chairman of the Division is active in the regional blood bank operations for Vermont and New Hampshire.

DIVISION OF DERMATOLOGY

JOHN FIDLAR DALY, B.S., M.D., Professor of Dermatology, Chairman of Division

ARTHUR HOWARD FLOWER, A.B., M.D., Assistant Professor of Dermatology

Instruction is given to medical students in the fundamentals of diseases of the skin and syphilis. The Division also teaches student nurses. Consultation service in dermatology and syphil-
ology is provided for both hospital and ambulatory patients in the state. A clinic is maintained for the indigent of the city by the staff of this Division. Staff members represent the University in professional dermatologic associations and speak on topics in their field before various organizations in the state.

Both members of the staff are diplomates of the American Board of Dermatology and Syphilology, Fellows of the American Academy of Dermatology and Syphilology, and of the Montreal and New England Dermatological Societies. Both staff members are part-time personnel.

Beginning in the academic year 1953-54, the Division has adopted a program of instruction for third-year students in the offices of the members of the staff. Each student will spend one full week on a preceptorial basis in the office of one of the members of the staff, seeing a variety of dermatoses in the office surroundings in which such patients are customarily seen. To our knowledge, this is the only such plan of instruction in medical schools of this country. This will be supplemented by a small number of lectures on current dermatologic developments.

In the fourth year, teaching is carried on in groups of three or four students assigned to the Free Dispensary. Here, patients are seen in conjunction with both members of the staff and the entire procedure from diagnosis to treatment and follow-up is executed together by staff and students.

Intern teaching is incidental to visits to hospital patients either on the dermatologic service or those seen in consultation. No graduate courses are offered.

The Division participates regularly in graduate educational efforts at staff meetings, medical society meetings and refresher courses.

DIVISION OF EXPERIMENTAL MEDICINE

WILHELM RAAB, M.D., Professor of Experimental Medicine, Chairman of Division

EUGENE LEPESCHKIN, M.D., Associate Professor of Experimental Medicine

WILLIAM VAN BOGAERT ROBERTSON, M.E., PH.D., Associate Professor of Experimental Medicine

The aims of the Division include stimulating among students and clinical staff a tendency to approach clinical questions in terms of their experimentally-established physiological background, and to contribute to the progress of clinical medicine by means of ex-
experimental techniques. The research activities of the Division concentrate on cardiovascular, neurovegetative and endocrine problems.

Aided by grants from the U. S. Public Health Service, the American Heart Association, the American Medical Association, and the U. S. Navy, several research problems are under way. For example: Assay of potentially cardiotoxic neurohormones in normal and pathological human hearts, and in animal hearts under experimental conditions; pressor and electrocardiographic reactivity to catecholamines during normal and toxemic pregnancy; hypercatecholeminia in the uremic syndrome; analysis of exercise electrocardiogram; electrocardiogram of the newborn; electrolyte distribution in the myocardium; metabolism of connective tissue.

The staff comprises an internist who is certified by the American Board of Internal Medicine and an electrocardiologist who is an established investigator of the American Heart Association. Both of these men are authors of recently published books related to their specialties. In addition, an associate professor who has a joint appointment with the Department of Biochemistry pursues an active research and teaching program.

A reprint library of cardiological literature is maintained by this Division.

Teaching of undergraduate students is confined to lectures, ward rounds, demonstration of electrocardiograms and phonocardiograms. In addition, the staff participates in clinical, clinico-pathological and correlation conferences, and arranges special courses in cardiology and endocrinology for graduates.

DIVISION OF NEUROLOGY

GEORGE ADAM SCHUMACHER, B.S., M.D., Professor of Neurology, Chairman of Division

The primary function of the Division is to provide to undergraduate medical students instruction in the field of diseases of the nervous system. In addition, this relatively new Division is making active plans for research in the field of nervous system disease.

The staff at present consists only of the chairman, but a fellowship is being established providing a place for an additional younger man in a research, teaching and training capacity. Plans are being made for an additional half-time faculty member. The chairman is certified by the American Board of Neurology and Psychiatry and came to us from the staff of Cornell University College of Medicine.
The undergraduate teaching program is spread over the second, third and fourth years. During the second year, the emphasis is on the techniques of examination, the common methods of eliciting and analyzing data, and training in neurological diagnosis. Didactic lectures are given in order to provide better understanding of and guidance in the carrying out of the neurological examination. Opportunity is provided to small groups of students for performance of a complete neurological examination on each other and on patients with nervous system disease.

During the third year a brief series of lectures is given to the entire class in order to provide broad orientation in the field of nervous system disease with emphasis on analysis and meaning of certain symptoms. No attempt is made to present didactically a series of individual disease syndromes. In addition, during the clinical clerkship on medicine, the student is assigned at regular intervals and in rotation all service patients admitted to the medical service with evidence of nervous system disease. These patients are presented by the students at the regular weekly neurological conference held for the clinical clerks on the floors of either the Mary Fletcher or Bishop DeGoesbriand Hospitals.

During the fourth year, instruction in neurology is confined essentially to participation in the work of the Neurology Outpatient Clinic. Each month a small group of students is assigned to the clinic, which meets once a week, and each student performs the complete neurological examination of a new patient. At this time the student is expected to record his complete diagnostic formulation and plan of management. The work is closely supervised and checked.

Interns and residents obtain training by rotation through the neurological service at the Mary Fletcher Hospital and through the medical service at the Bishop DeGoesbriand Hospital. Rounds and conferences take place, at which selected diseases of the nervous system are presented.

The chairman of the Division of Neurology gives talks before hospital staff groups and at state or regional society meetings. The staff of the Vermont State Hospital at Waterbury is provided instruction through this Division. In addition, the chairman participates in the clinics sponsored by the Vermont Association for the Crippled, including Speech and Hearing Clinics and Cerebral Palsy Clinics. He is on the Medical Advisory Committee of this group and serves as neurological consultant. He is also on the Executive Committee and Medical Advisory Board of the National Multiple Sclerosis Society with headquarters in New York, and participates actively in the work of this group.
DIVISION OF PEDIATRICS

ROBERT JAMES MCKAY, JR., A.B., M.D., Associate Professor of Pediatrics, Chairman of Division
PAUL DENNISON CLARK, M.D., Associate Professor of Pediatrics
ROY EDWARD CORLEY, A.B., M.D., Associate Professor of Pediatrics
RALPH DANIEL SUSSMAN, B.S., M.D., Assistant Professor of Pediatrics
DOROTHY BLACK CORBIN, B.S., M.D., Instructor in Pediatrics
DOROTHY JACKSON MORROW, B.S., M.D., Instructor in Pediatrics

The Division of Pediatrics directs its teaching to medical students and attempts to improve the standards of pediatric practice, particularly among general practitioners in Vermont. In addition, research projects are under way, all in the field of heart disease in children.

The staff consists of a full-time chairman who is supported in part by the Markle Foundation as a Markle Scholar, five part-time clinical teachers, a resident physician and a research associate on a special project.

Orientation lectures are given during the latter part of the second year. Each student has an eight-week clinical clerkship during the third year and participates in three outpatient clinics weekly during twelve weeks of the fourth year. Additional pediatric experience is gained during the fourth year through participation in a home care program, a preceptorship with a general practitioner in a rural area and a clerkship in a selected community hospital. The Division takes the responsibility for pediatric training of rotating interns and pediatric residents in the Burlington hospitals.

Members of the Division participate in two refresher courses each year and speak on invitation to county medical societies and numerous lay groups interested in health problems of children. A weekly pediatric conference is open to practitioners.

DIVISION OF PSYCHIATRY

RUPERT ADDISON CHITTICK, B.S., M.A., M.D., Professor of Psychiatry, Chairman of Division
ELIZABETH KUNDERT, B.S., M.S., M.D., Assistant Professor of Psychiatry
CHARLES WATTLES STEPHENSON, A.B., M.D., Assistant Professor of Psychiatry
This Division provides the undergraduate student with a broad understanding of human behavior and reactions to various life situations which can be applied to normal people, as well as to those who may be mentally or physically sick. Close cooperation with the other departments of the College of Medicine characterizes the work of the Division.

The staff is composed of ten members, four of whom are certified by the American Board of Psychiatry and Neurology. Two of the staff practice psychiatry privately and supervise the psychiatric outpatient clinics. Other members specialize in electro-encephalography, psychiatric problems of children, psychological techniques, psychiatric social service and the care of patients in psychiatric hospitals.

The chairman is the Director of the Vermont State Hospital at Waterbury. Staff members have been trained at the Hartford Retreat, the Menninger Clinic, and the MacLean Hospital in Boston.

The teaching program consists of courses in psychiatry given during the first, third and fourth years. The first-year course concerns itself with problems of personality development, psychobiological relationships and mental mechanisms. The discussion method based on moving pictures which illustrate the problems under consideration is used.

The third-year course is presented at the various hospitals associated with the College of Medicine, at which time patients who are in the hospital and assigned to students are considered. Psychoses, neuroses and the problems of childhood are all under discussion at this time.

During the fourth year, the students serve as clinical clerks at the Vermont State Hospital and have weekly psychiatric conferences at the Mary Fletcher Hospital. The fourth-year students also work in the mental health clinic in Burlington.
A two-year residency in psychiatry at the Vermont State Hospital is approved by the American Medical Association and the American Board of Psychiatry and Neurology. This training program is conducted in cooperation with the Mary Fletcher Hospital and the faculty.

THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

JOHN VAN SICKLEN MAECK, B.S., M.D., Associate Professor of Obstetrics and Gynecology; Chairman of Department

WILLIAM JOSEPH SLAVIN, JR., B.S., M.D., Associate Professor of Obstetrics and Gynecology

BENJAMIN FRANKLIN CLARK, B.S., M.D., Assistant Professor of Obstetrics and Gynecology

OLIVER ROLFE EASTMAN, B.S., M.D., Assistant Professor of Obstetrics and Gynecology

KERMIT EDWARD KRANTZ, B.S., M.S., B.M., M.D., Assistant Professor of Obstetrics and Gynecology

EDWARD DOUGLAS MCSWEENEY, A.B., M.D., Assistant Professor of Gynecology

MARTIN JOHN CANNON, B.S., M.D., Instructor in Clinical Obstetrics and Gynecology

HENRY LEWIS PRATT, B.S., M.D., Instructor in Obstetrics and Gynecology

DAVID LATHAM TABER, M.D., Instructor in Clinical Obstetrics and Gynecology

This Department attempts to develop a practical knowledge and a philosophy of obstetrics and gynecology in the student, the intern and the resident, and to make this College of Medicine the freely accepted standard for the practitioner of obstetrics and gynecology in this state.

Future aims include the organization of a postgraduate course especially suited to the needs of physicians throughout the state, and the development of a division devoting a good share of its time to female endocrinology.

Research projects include the study of enervation of the vagina and perineum, evaluation of vaginal antiseptics, renal function in pregnancy, endometrial hyperplasia, x-ray pelvimetry, ectopic pregnancy, analysis of maternal and fetal mortality in conjunction with the State Department of Health, and gynecological cancer in routine gynecological patients. Projects are conducted by
resident staff, as well as teaching staff members. Support is obtained by the United States Public Health Service, the National Research Council and Eaton Laboratories.

All members of the Department are graduates of institutions recognized for their capabilities in training men in the practice of obstetrics and gynecology, including Cornell University Medical College and the New York Hospital, Sloane Hospital for Women and Lincoln Hospital. The one full-time member of the Department has taken several honors in the field of research, directed particularly to the anatomy of the female reproductive tract. Part-time personnel include five actively teaching members located in Burlington and two part-time personnel residing in other parts of the state.

The undergraduate teaching program consists of weekly lectures throughout the second year, during which time basic fundamentals including physiology of reproduction are taught, using clinical material whenever possible.

In the third year, the class is divided into four groups of twelve students each. Each group is taught for a period of twelve weeks. Instruction includes a daily tutorial session with the members of the Department each assuming the responsibility for the teaching one day a week. The balance of teaching is done through clinical material in the outpatient department, when the student is assigned to the delivery suite and to the in-patient obstetrical and gynecological services. Special classes are held in manikin demonstration with small groups twice weekly. Gynecological and obstetrical pathology is taught in a combined course with the Department of Pathology. Departmental staff rounds are held weekly Tuesday mornings and grand rounds with the Chief of Staff on Friday mornings. The latter rounds attempt to discuss the particular problems as they occur on the wards and to correlate the surgical pathology of the previous week.

The basic intern resident program is designed to train the intern to be able to manage normal obstetrics and to recognize obstetrical and gynecological complications. At present a three-year residency program is in operation, beginning July 1, 1954. This will become a four-year program, one year of which will include assignment at the Boston Lying-In Hospital. Residency training includes teaching nurses, medical students and interns; work in the outpatient clinic, the hospital wards, and a final year as Chief Resident, during which time this man is responsible for the clinic and service patients in the hospital and performs the vast majority of the service surgery.

There is no active postgraduate program at this time.
THE UNIVERSITY OF VERMONT

THE DEPARTMENT OF OPHTHALMOLOGY, OTOLARYNGOLOGY AND RHINOLOGY

JOHN CHARLES CUNNINGHAM, A.B., M.D., Professor of Ophthalmology, Chairman of Department

MARSHALL COLEMAN TWITCHELL, JR., A.B., M.D., Assistant Professor of Ophthalmology

DIVISION OF OTOLARYNGOLOGY AND RHINOLOGY

RUFUS CLEGG MORROW, JR., B.S., M.D., Assistant Professor of Otolaryngology and Rhinology, Chairman of Division

PETER PAUL LAWLOR, M.D., Assistant Professor of Otolaryngology and Rhinology

KARL CORNELIUS McMAHON, B.S., M.D., Assistant Professor of Otolaryngology and Rhinology

ELMER MCCREADY REED, B.S., M.D., Instructor in Otolaryngology and Rhinology

Teaching of all the aspects of ophthalmology, otolaryngology and rhinology to undergraduate students is the primary aim of this Department. In addition, the staff participates in the activities of the Vermont Association for the Crippled and the Divisions of the Blind and Vocational Rehabilitation of the State Health Department. Consultation duties are performed at hospitals in neighboring communities.

Members of the staff have been trained at Massachusetts Eye and Ear, Brooklyn Eye and Ear, St. Luke's, Columbia, and Presbyterian Medical Center. The staff personnel are all part-time.

Ophthalmology, otolaryngology and rhinology are taught in the third and fourth years by lectures, rounds, patient conferences and clinics. The use of visual aids is frequent.

Although interns receive training during their periods of rotation, no residency is maintained at present. Staff members participate in local and regional medical programs.

THE DEPARTMENT OF PATHOLOGY AND ONCOLOGY

BJARNE PEARSON, B.S., M.B., M.D., M.S., (Med.), Professor of Pathology, Chairman of Department

JOSEPH WORCESTER SPELMAN, B.S., M.D., Associate Professor of Pathology
The aim of this Department is teaching, research and service. The broad basic principles of pathology and oncology are introduced. In addition, investigation into the nature and cause of diseases, particularly those which take the greatest toll such as cancer, cardiovascular disease, and the problems of gerontology are pursued. Active, well-supported research programs in these areas are carried on constantly by members of the Department.

Direct services are being rendered to the state and the people of Vermont in the field of medico-legal pathology. Service directly to the patient in pathology and oncology is given.

The training of the staff is varied and special fields of interest such as those of oncology, gynecological pathology, hematology, and medico-legal pathology are represented. The research staff has demonstrated interest and proficiency in the fields of endocrinology, enzymology, biochemistry, physiology and isotope techniques.

Membership in a number of national organizations are held by the staff. There are four full-time and five part-time teachers, as well as additional auxiliary personnel.

The teaching occurs in the second, third and fourth years. Student participation is stressed by means of seminars, colloquia, experimental projects, correlation and clinical pathological conferences, as well as demonstrations. Integrated experiences are stressed and the students encouraged to solve problems.

The residency program meets the minimum training of four years required for qualification by the American Board of Pathology. Graduate training leading to the degree of Master of Science in pathology can be arranged for properly qualified individuals.

Graduate Courses

200-201. Medical Pathology

This course consists of lectures, conferences, seminars, experimental procedures, and demonstration of pathological material. The course is given to the second-year medical students but modi-
fied to meet the needs of the individual graduate student. It is designed to be taken as a minor. A student cannot take 201 as a minor unless he has taken 200 or has previous equivalent qualifications.

Course 200 consists of 32 hours of lecture and conference, and 96 hours of laboratory work during the first semester. 5 credit hours.

Course 201 consists of 48 hours of lecture and conference, and 128 hours of laboratory work during the second semester. 7 credit hours.


The seminar in pathology includes the study of material of interest in general, surgical and experimental pathology. Current literature in the field is presented and discussed, as well as theories and application of new concepts and techniques contributing to the advancement of the field. Fundamental problems of dynamic states are explored. This course meets 4 times a week. 4 credit hours.

203. Research in Pathology.

The results of investigations will be used as a basis for the thesis required for the degree of Master of Science. Credit and hours to be arranged.

THE DEPARTMENT OF PHARMACOLOGY

DURWOOD JAMES SMITH, A.B., M.D., Professor of Pharmacology, Chairman of Department
WILLIAM HOOPER MACMILLAN, B.A., Instructor in Pharmacology

The continued improvement of medical care rendered to the people of Vermont is the aim of this Department. The teaching, research and advisory services are designed to attain this objective.

Laboratories are maintained for the investigation of vascular physiology, neuromuscular pharmacology and the cardiovascular pulmonary reactions of the intact animal to stress. The Department renders specialized advice and assistance in medicolegal, civil defense and environmental medical problems, in addition to the evaluation of drugs.

The scientific staff is composed of four full-time and one half-time persons and includes individuals trained in cardiovascular physiology, pharmacology, internal medicine, neuromuscular
physiology, endocrinology, protozoology, malariology and pharmacy. Technical services are provided by three full-time assistants.

Pharmacology for undergraduate medical students is taught during the second year, from the standpoint of the actions and uses of drugs in the prevention and treatment of disease. Didactic work consists of lectures which are supplemented by textbook and library assignments. Motion picture medical teaching films are utilized when suitable. Practical exercises consist of laboratory experiments and demonstrations in mammalian pharmacodynamics with the emphasis upon accurate observation, careful recording and biological variation in drug action. Materia medica and prescription compounding are discussed by pharmacists. Small group conferences and informal seminars are emphasized. The therapy of disease by drugs is presented by clinical conferences conducted in association with the Department of Medicine, to the third and fourth-year students.

Candidates for graduate study are encouraged by the Department. Facilities are available for properly qualified students and others for research either independently or in cooperation with members of the staff.

Graduate Courses

200. Pharmacology

This is the course given in the medical curriculum, with such modifications for the individual graduate student as are required. Lectures, conferences and demonstrations, 80 hours; laboratory, 64 hours. 6 credit hours.

THE DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS

FERDINAND JACOB MORRIS SICHEL, B.SC., SC.M., PH.D., Professor of Physiology and Biophysics, Chairman of Department

ALFRED HAYES CHAMBERS, A.B., PH.D., Associate Professor of Physiology and Biophysics

WALTER LEROY WILSON, B.S., PH.D., Assistant Professor in Physiology and Biophysics

MARTIN WESLEY WILLIAMS, A.B., PH.D., Instructor in Physiology

OSCAR SYLVANDER PETERSON, JR., M.D., Associate in Biophysics

The aim of the Department is to facilitate the diffusion of physiological and biophysical knowledge, particularly those phases
which may be applied to medical practice and to clinical teaching
and research. Current investigations in the Department concern
the physiology and biophysics of cardiac contraction, respiratory
control, intracellular clotting mechanisms, and hormonal effects at
 cellular and tissue levels.

The staff consists of four full-time faculty members and
auxiliary personnel. These faculty members have doctorates
from the University of Pennsylvania, New York University and
Ohio State University. The senior members belong to nationally
recognized societies in their fields.

The teaching to medical students aims to describe and ex-
plain function in the whole human organism and at the cellular,
tissue, and organ levels. The approach is mainly biological and
physical. Physiological principles fundamental to clinical medi-
cine are examined on the basis of supporting experimental evidence.
Instruction is given throughout the first year, mainly by means of
lectures, laboratory classes and demonstrations. The laboratory
work is of a quantitative nature wherever feasible, and in almost
half of the experiments the student also acts as subject.

The graduate program is directed toward the candidate for
the Master of Science degree. The courses and research program
are restricted to the general fields of interest of the full-time facul-
ty members.

Graduate Courses

200. Physiology and Biophysics.
This is the course given in the medical curriculum, modified
as required to meet the needs of individual graduate students.
Lectures and conferences, 64 hours, first semester; 48 hours,
second semester; laboratory, 64 hours each semester. 11 credit
hours.

201. Special Problems in Physiology.
This course, open to qualified students by arrangement with
the staff, will cover various special problems by means of lectures,
seminars and directed reading. Hours to be arranged.

202. Special Problems in Biophysics.
This course, open to qualified students by arrangement with
the staff, will include lectures, seminars and directed readings on
current problems in biophysics and medical physics. Hours to be
arranged.

203. Research.
Properly qualified students may arrange to use the facilities
of the Department for investigations in physiology or biophysics,
either independently or in cooperation with members of the staff.
COLLEGE OF MEDICINE

THE DEPARTMENT OF SURGERY

ALBERT GEORGE MACKAY, B.S., M.D., Professor of Surgery, Chairman of Department

WALFORD TUPPER REES, M.D., Professor of Clinical Surgery

JOHN ABAJIAN, JR., M.D., Professor of Anesthesia

KEITH FRANK TRUAX, B.S., M.D., Associate Professor Surgery

ARTHUR GLADSTONE, B.S., M.D., Associate Professor of Clinical Surgery

DONALD BARKER MILLER, A.B., M.D., Assistant Professor of Chest Surgery

JAMES BISHOP MCGILL, B.S., M.D., Instructor in Surgery

LOUIS GEORGE THABAULT, M.D., Instructor in Surgery

ALBERT JAMES CRANDALL, B.S., M.D., Instructor in Clinical Surgery

WILLIAM STEPHEN DEMPSEY, A.B., M.D., Instructor in Clinical Surgery

JAY EDGAR KELLER, M.D., Instructor in Clinical Surgery

JOHN FREDERICK LYNCH, B.S., M.D., Instructor in Clinical Surgery

HENRI LOUIS PACHE, B.S., M.D., Instructor in Clinical Surgery

WILLIAM IRELAND SHEA, A.B., M.D., Instructor in Clinical Surgery

GINO ALDO DENTE, M.D., Instructor in Anesthesia

The Department offers introductory training in disciplines, leading to a firm foundational knowledge of the science of surgery. It is planned that the personnel of the Department will play an active part in carrying out the programs of the Surgical Section of the Vermont State Medical Society, the regional and national meetings of the American College of Surgeons, the New England Surgical Society, and other related associations. Research and the writing of surgical literature is encouraged through the availability of the animal operating facilities, the medical library, and free exchange of ideas among department personnel. A monthly journal club, conducted by the junior members of the Department, with the supervision of the senior members, stimulates interest and criticism of current surgical literature and acts as an excellent supportive exercise for resident training. The training of surgical fellows is an integrated part of the Department's work, such fellows holding appointments as residents in local hospitals and having their training integrated with the personnel of the undergraduate level under the direction of the junior and senior staff.
All senior members of the staff are American Board certified surgeons and Fellows of the American College. All junior members are either already certified or in the process of completing their qualifications. Fields of special interest are well represented, including surgery of the head and neck, chest, gastric and biliary tracts, gastro-intestinal surgery, and surgery of the colon and rectum, as well as peripheral vascular diseases and other fields. One staff member is actually entirely full-time. Eight other individuals are geographically full-time, and other personnel, in outlying hospitals, are associated in their work in undergraduate teaching. Three full-time residents are on duty, with the probability that this will be increased to five for the coming year.

The science of surgery is introduced in the second-year course. The fundamental concepts of surgical practice are emphasized, including panel discussions, lectures, slide projection, and movie film presentations, as well as observation of patients.

In the third year, the undergraduate becomes intimately associated with patients through direct assignment, and individual supervision is given through a tutor, who is responsible for the students' comprehensive coverage of the basic subjects in surgery. This teaching is supplemented with department conferences, clinicopathological conferences, specialty conferences, panel discussions, ward rounds, and patient interviews. Examinations, which are oral and written, are given at the end of this period of instruction.

The material of the fourth-year is presented primarily through outpatient and out-of-town affiliated hospital teaching. The student, to a greater extent, covers independent assignments as an individual in direct contact with individual patients, and the quality of his work is graded. He is allowed to attend staff department conferences where the entire staff debate the use of time-proven and new techniques in the surgical treatment of disease.

The intern and resident program is intimately correlated through the fellowships in surgery and intern appointments at the teaching hospitals, the resident program being correlated with fellowships under the College, the completion of which leads to full qualifications for admission to certification board examinations and, indirectly, to experience permitting qualification for fellowship in the American College.

Postgraduate courses are given in conjunction with other departments under the guidance of the Committee on Postgraduate Education but, specifically, annual courses are given in cancer surgery and other special fields.
DIVISION OF NEUROSURGERY

RAYMOND MADIFORD PEARSON DONAGHY, B.S., M.D., Professor of Neurosurgery, Chairman of Division
LESTER JULIAN WALLMAN, A.B., M.D., Associate Professor of Neurosurgery

In addition to providing care for patients in the state of Vermont with diseases or injuries of the nervous system requiring surgical intervention, this Division teaches the principles of neurological surgery to medical students. Research includes the study of scar formation in peripheral nerves in rats. Plans for the study of cerebral edema and the freezing of nervous tissues are under way.

The staff consists of two full-time neurological surgeons and nurses trained in neurosurgical care and procedure.

Third-year students meet in small clinical conferences during the quarter on surgery. Fourth-year students attend ward rounds, the neurosurgical outpatient clinic, neuropathological conferences, and assist at operations. Residency training is not available in this specialty.

The Department provides 24-hour consultation service throughout Vermont, northern New Hampshire and northeastern New York.

DIVISION OF ORTHOPEDIC SURGERY

JOHN FRYE BELL, A.B., M.D., Associate Professor of Orthopedic Surgery, Chairman of Division
DAVID MARSH BOSWORTH, A.B., M.D., Consultant in Orthopedic Surgery
CHARLES BRUSH RUST, M.D., Assistant Professor of Orthopedic Surgery
RAYMOND FRANK KUHLMANN, B.A., M.D., Instructor in Orthopedic Surgery
JAMES EDWIN SIMPSON, B.S., M.D., Instructor in Orthopedic Surgery

The aim of the Division is to promote the principles of orthopedic surgery on all levels of teaching, whether by organized instruction, rounds, and case work with students, interns and residents, or by conferences, consultation and formal presentations to doctors and other personnel concerned with health. The Division maintains an active interest in problems of orthopedic investi-
gation and research and prefers to emphasize the application of orthopedic surgery to the practice of general medicine.

All four members of the faculty are certified by the American Board of Orthopedic Surgery and they hold membership in the American Academy of Orthopedic Surgeons. The members of this group are part-time.

Undergraduate teaching occurs in the second, third and fourth years and includes the presentation of orthopedic aspects of physical diagnosis, introduction to fractures, conferences, case material and lectures on material within the field of orthopedic surgery, and general orthopedic problems as encountered in the outpatient clinic.

Intern and resident teaching is carried out through rounds and personal contact regarding specific cases. No approved residences are available in this field.

Postgraduate training is effected through presentation at medical societies and cooperation with state rehabilitation and crippled children’s groups.

DIVISION OF RADIOLOGY AND PHYSICAL THERAPY

ARTHUR BRADLEY SOULE, JR., A.B., M.D., Professor of Radiology, Chairman of Division
OSCAR SYLVESTER PETERSON, JR., M.D., Associate Professor of Radiology
FREDERICK WILLIAM VAN BUSKIRK, A.B., M.D., Associate Professor of Radiology
HOWARD THEODORE GUARE, M.D., Assistant Professor of Radiology
RALPH BANNISTER, Instructor in X-ray Technique
WILLIAM HERBERT JOHNSTON, B.S., M.D., Instructor in Radiology
ROBERT NEWTON SAXBY, B.S., M.D., Instructor in Radiology

The Division of Radiology provides special services to local teaching hospitals and to community hospitals in central and northwestern Vermont. In addition, medical students, residents, nurses and x-ray technicians receive instruction by members of this Division.

Research projects include the development and design of a rotational x-ray therapy unit, development of a method of brain tumor localization by the use of plane-scanning, studies on the toxicity of kerosene, and methods of therapy in the treatment of hemangiomas.
Six staff members work full time in radiology but none are full-time employees of the College of Medicine. A member of the staff recently participated in the International Congress of Radiology in Copenhagen, Denmark, and the Inter-American Congress of Radiology in Mexico City.

The teaching of radiology extends through the entire four years. Fluoroscopic examinations of chest and alimentary tract are demonstrated in the first year. Lectures on the biological effects of radiation are given during the second year. Third-year students receive the principles of diagnostic and therapeutic radiology in small discussion groups. Fourth-year students attend weekly radiology conferences.

A fully accredited residency program is available and utilizes the facilities of the College of Medicine and cooperating hospitals. Postgraduate education is accomplished by consulting visits to hospitals in the area.

DIVISION OF UROLOGY

PLATT RUGAR POWELL, B.S., M.D., Assistant Professor of Urology, Chairman of Division
LOUIS WILLIAM ESPOSITO, B.S., M.D., Instructor in Urology
ALDO GINO FRANCESCHI, M.D., Instructor in Urology

This Division, recently reorganized under its new chairman, is concentrating its main effort for the current year on adapting itself to the greatly revised teaching program. A few papers are in the process of preparation for publication and an investigative project started in the previous year is being completed.

The staff is composed of four members, one of whom is inactive. In this group, three members are certified by the American Board of Urology and the other member will soon become eligible. All members are part-time.

The teaching program is directed at the third and fourth years. Didactic lectures usually levelled at the third-year group, are largely supplemented by tutorial sessions with smaller groups, briefly reviewing and clarifying puzzling aspects of broad segments of material to be covered and using patient material to assist in this effort. Third and fourth-year teaching is carried out almost entirely in the hospital. Fourth-year students are particularly active on the wards and in the outpatient departments. They are occupied with patient study, weekly urological rounds, observation in cystoscopy and operating rooms.

Interns in both teaching hospitals are assigned both to urol-
ogy and the other surgical specialties, and their time is divided as indicated by weight of patient material.

An approved urological residency is available. The program is approved for three years and will probably be extended to four years.

**STUDENT INFORMATION**

**REQUIREMENTS FOR ADMISSION**

The usual requirements for admission to the College of Medicine are four 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:
- Biology
- English
- Physics (including laboratory)
- General Chemistry
- Organic Chemistry
- Quantitative Chemistry (a satisfactory one semester course)

The College strongly recommends additional courses in:
- English
- Mathematics (at least one year)
- A modern foreign language, work of such a grade that the students will have a reading knowledge of the language.

These should be regarded by the student as minimum basic requirements. Majoring in sciences is not required.

While the minimum requirements must be satisfactorily completed, additional well-planned courses of study in the fields of history, economics, sociology, psychology, philosophy, music and the arts should be included. This is possible if students carefully plan programs of study aimed at individual scholarship and development of a field of interest 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 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 aptitude 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.

3. 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 the 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.

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 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.

ENROLLMENT

On a day designated at the opening of each semester, registration and enrollment take place. Payment of tuition and other fees must be made at this time.

Students who fail to register on the day designated for registration will be required to pay the fee for late registration.

ADMISSION OF STUDENTS TO ADVANCED STANDING

When vacancies occur, students may be considered for advanced standing. Such students will be accepted only on the conditions stated herewith.

1. That the premedical and medical work be in accord with the courses required at this institution, and have been taken at an institution approved by the Council on Medical Education and Hospitals of the American Medical Association.

2. That the scholastic record is satisfactory.

3. That the statement of record shows no condition and that said statement be accompanied by a letter of honorable dismissal.

No applicant for advanced standing will be enrolled under more favorable conditions than he would obtain were he to continue at the institution from which he seeks to transfer.

A personal interview is required of all applicants for admission by transfer to the College of Medicine. Preference will be given to residents of the State of Vermont.

Students desiring advanced standing are subject to the same rules in regard to advancement in course as students who have attended the College of Medicine of the University of Vermont.

Students dismissed by reason of failing grades from other institutions will not be considered for admission to any class in the College of Medicine.
FEES AND EXPENSES

Application Fee ........................................ $ 10.00
Fee for late registration .................................. 6.00
Tuition Fee for each session for Vermont students ....... 550.00
Tuition Fee for students not residents of Vermont .......... 1,000.00
Osler Clinical Society Fee .................................. 3.50
Locker Fee for each of first, second and third years ....... 1.00
Locker Key Deposit—Paid on admission; refunded end of third year ........................................ 1.00

Average Range
Room Rent ........................................ $200.00 to $300.00
Board ........................................... 300.00 to 400.00

All students who enter the first year in the College of Medicine following three years' attendance in the College of Arts and Sciences of the University of Vermont are charged the academic student activity fee of $15 for that year. This includes the Osler Clinical Society fee of $3.50 a year. All students are required to pay the latter fee each year they attend the College of Medicine. Other medical students may, by paying the student activity fee, become entitled to the benefits students receive from payment of that fee.

Every student must have in his or her possession on the opening day of the College of Medicine a microscope of the following specifications. Such microscope must be in his or her possession for use during the entire medical course.

Failure to conform to this requirement in every detail will be considered just cause for a student's dismissal from the College of Medicine.

A satisfactory modern (medical type) compound microscope with side fine adjustment and equipped with:

(a) An Abbe substage condenser with iris diaphragm and rack and pinion
(b) 10X oculars
(c) At least three objectives with lenses free from defects and capable of giving clear images—low power (16 mm.), high dry power (4 mm.), and oil immersion (1.8 mm.)
(d) At least a three-place nosepiece
(e) A modern and properly functioning mechanical stage; calibration is not necessary.
(f) Properly functioning fine and coarse adjustments.
(g) An adequate lamp for substage illumination equipped with CORNING DAYLITE glass filter 3/16 inch thick and at least a 10-watt bulb for monocular and a 25-watt bulb for binocular microscopes. Binocular microscopes are desirable but not required.

Students must provide microscopical supplies for use in the various laboratories.

Each student must purchase a dissecting case for use in the Anatomical Laboratory.

Medical textbooks, outlines, student supplies and equipment are sold at the University Store in the Waterman Memorial Building.

The tuition fee is payable in two equal installments at the beginning of each semester. Students are not admitted to classes of a half year until the comptroller’s receipt has been issued.

Students temporarily absent from the University are charged as if present.

A student who has been dropped into a lower class because of deficiency in his work, or for other reason, will be required to pay his bills for the additional year or years in which he may be a member of the University.

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.

In no case will a scholarship or tuition exemption be available for more than four years.

HONORS AND PRIZES

The five students who have been top-ranking during the entire four years’ course of study in the College of Medicine, are graduated as Doctors of Medicine, *cum laude*.

*Alpha Omega Alpha.*—Honor medical society. Students are elected to this national society by faculty advisors and student members. Selection is based not only upon high academic records but also upon evidence of individual scholarship and promise for a medical career.

*The Governor Woodbury Prizes.*—The income from a fund of one thousand dollars provides annually two equal prizes. The first is awarded at graduation to the student who has shown the
greatest proficiency in clinical work. The other is awarded to the sophomore having the highest standing in the subjects of the first two years. The amount of each prize is determined by the income obtained from the investment of the fund.

The Carbee Prize.—A prize fund of three thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873. The annual income from the investment of this fund provides a prize to be awarded annually to that student of the Senior class who has shown the greatest proficiency in the field of Obstetrics. The Department of Obstetrics makes the award.

Lamb Foundation Prizes.—Prizes of seventy-five, fifty and twenty-five dollars will be offered during the year 1953-1954 by the Lamb Foundation to students in the College of Medicine. The awarding of these prizes will be for student interest, application to and work on the problems of patient comfort and doctor-patient relationship.

SCHOLARSHIPS AND LOAN FUNDS

A scholarship fund of three thousand dollars was established by the late 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 derived from the investment of this fund is given annually to a deserving student in the College of Medicine.

By Act of the Legislature in 1919, amended in 1953, the State of Vermont annually provides State Scholarships of $200 each in the College of Medicine for residents of the State of Vermont who may need financial assistance. To qualify for such scholarships, students must have established residence in Vermont two consecutive years preceding enrollment. Where students accept these scholarships, they must agree to practice medicine in the State of Vermont one year for each year such aid is given, or refund the amount of aid received. Application blanks may be obtained at the Dean’s Office.

A loan fund of four thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873. Students in the College of Medicine in need of financial assistance may apply for loans from this fund.
The Edith Blanche Kidder Scholarship Fund was established by the late Joseph W. Kidder. This is for students in the College of Medicine, preference being shown to legal residents of Barre, Vermont. The amount of each scholarship is determined annually by the income from the invested fund.

The Edward Everett Hawes Fund, founded in 1946 by bequest of Dr. Edward Everett Hawes of Hyannis, Massachusetts, provides scholarship aid for medical students.

The Medical College Loan Fund is available for loans to students enrolled in the College of Medicine.

The W. K. Kellogg Loan Fund was established in May 1942 by a gift of $10,000 from the W. K. Kellogg Foundation. It provides loan funds for students of ability in the College of Medicine who may be in need of financial assistance.

Certain special and endowed scholarships and funds, including the Wilbur Fund, are available to students of any college in the University. See the catalogue number of this Bulletin. All requests for student aid should be made through the Dean's office.

REGULATIONS FOR COLLEGE OF MEDICINE STUDENTS

ATTENDANCE

a. Attendance upon the exercises assigned for the year is obligatory. Failure to attend 80 per cent of the exercises of any course constitutes a failure in that course.

b. Students must wait ten minutes for an instructor or lecturer who is tardy. In case of examination, students are expected to remain throughout the assigned period.

c. The course of instruction in the College of Medicine requires four consecutive school years. No student is eligible for a medical degree who has not been registered in medical school four complete years. Any resumption of study after absences greater than the time allowed for absence will be permitted only on majority vote of the Faculty of the College of Medicine upon the recommendation of the Admissions Committee.

ADVANCEMENT

a. The work of each year is final, and students are advanced when they have satisfactorily completed the work assigned for the year.

b. The standing of each student in his class at the end of the session is based upon the general character of his work in the different laboratories and other practical exercises, upon the char-
character of his recitations, and upon the results of all examinations held during and at the end of the course.

c. The work of students is evaluated on the basis of 100 per cent. The lowest passing grade is 75 per cent except in the case of minor subjects. In the first and second years, the passing grade for each minor subject is 75 percent. In the third year, a grade of 60 per cent is accepted for individual minor subjects, but the average for a group of minor subjects must be 75 per cent.

d. Any student who has failed in 25 per cent or more of the major courses in any year will not be allowed to advance with his class. Neither shall he be allowed to repeat the work of that year, except upon recommendation of the Committee on Advance­ment and by vote of the faculty.

e. Students who fail in less than 25 per cent of the major courses in the first, second, or third years may be re-examined in the subjects failed at the regular examination period preceding the opening of the next school year. The marks obtained in this re-examination are computed with the credits earned during the preceding year in exactly the same way as those obtained in the examination at the end of the course. However, the highest final grade allowed for a course passed on re-examination shall be 75 per cent.

f. A student who, upon re-examination in any subject, again fails will not be advanced unless such failure be in a single subject which is not completed in that year. In the latter case, the student may upon recommendation of the head of the department in which the course was given, and by vote of the faculty, be advanced with a condition. Such student may, however, petition the faculty to repeat the year.

g. A student will not be permitted to become a member of the third-year class until he has removed all conditions of the first year; and a student will not be permitted to become a member of the fourth-year class until he has removed all conditions of the second year.

h. A student, whose grade average for the year is less than 80, may be required, after review of his status by the Committee on Advancement and formal approval of the faculty, to repeat the year's work or to withdraw from school.

i. A student who has been a member of either the first, second, or third-year class for two school years, and has failed to fulfill the requirements for advancement, or a student who has been a member of the fourth-year class for two school years and has failed to fulfill the requirements for graduation will not be enrolled again as a student of the College of Medicine.
j. A student who fails to present himself at the appointed hour for any examination at which he is due to appear will be treated as having taken the examination and failed to pass it, unless he is excused from such examination by the faculty.

k. The scholastic records of all students shall be reviewed by the Committee on Advancement at the end of the course work, and may be reviewed at any time.

Freshmen: Rules regarding failures apply, except that the Committee on Advancement is empowered to review cases of failure and make such recommendations to the Dean and the Faculty as it may see fit.

Sophomores: At the completion of the second year's work students may be required to take a comprehensive examination upon recommendation of a department chairman, subject to the approval of the Committee on Advancement and the Dean.

Juniors: The third-year students shall be judged on the basis of course work, present rules regarding failures to hold except that the Committee on Advancement is empowered to review cases of failure and make such recommendations to the Dean and Faculty as it may see fit.

Seniors: Fourth-year students may be required to take a comprehensive examination upon recommendation of a department chairman, subject to the approval of the Dean.

REQUIREMENTS FOR GRADUATION

Candidates for the degree of Doctor of Medicine must have reached the age of twenty-one years and must have shown satisfactory evidence of good moral character. All the requirements of this college in regard to preliminary education must have been met, and the candidate must have attended regularly and completed satisfactorily the prescribed work of the four courses of instruction. The degree of Doctor of Medicine is granted by the Board of Trustees of the University of Vermont and State Agricultural College to candidates from the College of Medicine only upon the recommendation of the Committee on Advancement and the Faculty of the College of Medicine to the University Senate.

While internship is not required for graduation, graduates are expected to serve at least a one-year internship in a hospital approved by the Council on Medical Education and Hospitals of the American Medical Association.

All candidates for degrees must be present at Commencement unless excused by the President of the University.
# FIRST YEAR SCHEDULE

## 1953-54

<table>
<thead>
<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<tbody>
<tr>
<td>8:30-9:20</td>
<td>Biochemistry</td>
<td>Biochemistry</td>
<td>Biochemistry</td>
<td>Psychobiology**</td>
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<td>Biochemistry</td>
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<td>9:30-10:20</td>
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<td></td>
<td>Anatomy</td>
<td>Discussion Groups**</td>
<td>Biochemistry</td>
<td></td>
</tr>
<tr>
<td>10:30-11:20</td>
<td>Anatomy*</td>
<td>Anatomy</td>
<td>Physiology</td>
<td>Physiology</td>
<td></td>
<td>Anatomy</td>
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<tr>
<td>11:30-12:20</td>
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<td>Physiolog3y</td>
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<tr>
<td>1:30-2:20</td>
<td>Anatomy</td>
<td>Free</td>
<td>Physiology (sec. a)</td>
<td>Physiology (sec. b)</td>
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<tr>
<td>2:30-3:20</td>
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<tr>
<td>3:30-4:20</td>
<td>Anatomy</td>
<td>Free</td>
<td>Physiology (sec. a)</td>
<td>Physiology (sec. b)</td>
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<tr>
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**Meet alternate weeks.
**SECOND YEAR SCHEDULE**
First Semester 1953-54

<table>
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<tr>
<th>Hours</th>
<th>Monday</th>
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<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
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</thead>
<tbody>
<tr>
<td>8:30 - 9:20</td>
<td>Surgery</td>
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<tr>
<td>9:30 - 10:20</td>
<td>Introduction to Medicine</td>
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<tr>
<td>10:30 - 11:20</td>
<td>Physiology</td>
<td>Physics</td>
<td>Physiology</td>
<td>Physiology</td>
<td>Pathology</td>
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<td></td>
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<td>(sec. a)</td>
<td>(sec. a)</td>
<td>(sec. b)</td>
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<tr>
<td>11:30 - 12:20</td>
<td>Physical Diagnosis</td>
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<td>Physical Diagnosis</td>
<td>Physical Diagnosis</td>
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<td>(sec. a)</td>
<td>(sec. b)</td>
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<tr>
<td>1:30 - 2:20</td>
<td>Free</td>
<td>Physiology</td>
<td></td>
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<tr>
<td>2:30 - 3:20</td>
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<td>Clinical Pathology</td>
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<td>3:30 - 4:20</td>
<td></td>
<td></td>
<td>Pathology</td>
<td>Clinical Pathology</td>
<td></td>
<td></td>
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<tr>
<td>4:30 - 5:20</td>
<td></td>
<td>Anatomy</td>
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</table>
# Second Year Schedule

**Second Semester 1953-54**

<table>
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<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
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</thead>
<tbody>
<tr>
<td>8:30-9:20</td>
<td>Pharmacology</td>
<td></td>
<td></td>
<td></td>
<td>Surgery</td>
<td>Obstetrics</td>
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<tr>
<td>9:30-10:20</td>
<td></td>
<td></td>
<td>Pathology</td>
<td></td>
<td>Pediatrics</td>
<td>Surgery</td>
</tr>
<tr>
<td>10:30-11:20</td>
<td>Pharmacology</td>
<td>Medicine</td>
<td></td>
<td></td>
<td>Correlation Conference</td>
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<tr>
<td>11:20-12:20</td>
<td></td>
<td></td>
<td>Pathology</td>
<td></td>
<td>Pathology</td>
<td></td>
</tr>
<tr>
<td>1:30-2:20</td>
<td>Pharmacology</td>
<td>Neurology</td>
<td>Public Health</td>
<td>Pathology</td>
<td>Pharmacology</td>
<td></td>
</tr>
<tr>
<td>2:30-3:20</td>
<td></td>
<td>Neurology</td>
<td></td>
<td></td>
<td>Public Health</td>
<td></td>
</tr>
<tr>
<td>3:30-4:20</td>
<td>Med. Sections</td>
<td>Med. Sections</td>
<td>Anatomy</td>
<td></td>
<td>Public Health</td>
<td></td>
</tr>
</tbody>
</table>
## THIRD YEAR SCHEDULE

1953-54

*Surgical Quarter (12 weeks)*

(Other quarters are: Medicine, Pediatrics and Obstetrics)

<table>
<thead>
<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-9:00</td>
<td>Tutor</td>
<td>Conference</td>
<td>Tutor</td>
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<tr>
<td>9:00-10:00</td>
<td>One student weekly to x-ray</td>
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<tr>
<td>10:00-11:00</td>
<td></td>
<td>Proctology</td>
<td>Grand Rounds</td>
<td>Follow-up clinic</td>
<td></td>
<td>Orthopedic conference</td>
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</tr>
<tr>
<td>11:00-12:00</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
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<tr>
<td>12:00-1:00</td>
<td>ENT conference</td>
<td>Pathology-Surgery conference</td>
<td>Tumor clinic</td>
<td>x-ray conference</td>
<td></td>
<td>Neurorsurgery, Urology, Anesthesia and Thoracic Surgery discussion groups</td>
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<tr>
<td>1:30-2:30</td>
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<tr>
<td>2:30-3:50</td>
<td>x-ray conference</td>
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<td>4:00-5:30</td>
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</table>

All hospital rounds and conferences not listed will be available for student attendance. Students spend unassigned time on the wards of the hospitals as clinical clerks.
FOURTH YEAR SCHEDULE
1953-54

Detail of Rotation

July        Medicine, State Hospital
August      Medicine, Mary Fletcher Hospital
September   Medicine, Mary Fletcher Hospital
October     Pediatrics, Mary Fletcher Hospital
November    Surgery, Mary Fletcher Hospital
December    Obstetrics, Mary Fletcher Hospital
January     Mixed service, Bishop DeGoesbriand Hospital
February    Home Care Program (2 weeks required).
            Preceptorship with a general practitioner
            or vacation (2 weeks elective).
March       Tuberculosis, Trudeau Sanatorium or Veterans
            Administration Hospital, Sunmount.
April       Psychiatry, State Hospital.
May         Mixed service—Fanny Allen or Springfield Hospitals;
            Brightlook, Bennington or Rutland Hospitals.
June
## SUMMARY OF STUDIES 1953-1954

### CLASSROOM AND LABORATORY HOURS

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours</th>
<th>Second Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Anatomy</td>
<td>324</td>
<td>Anatomy</td>
<td>48</td>
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<tr>
<td>*Biochemistry</td>
<td>201</td>
<td>*Clinical Pathology</td>
<td>128</td>
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<td>Discussion Groups</td>
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<td>*Medicine (Physical Diagnosis</td>
<td>96</td>
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<td></td>
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<td>and History Taking)</td>
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<td>*Histology and Embryology</td>
<td>143</td>
<td>Neurology</td>
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<td>*Neuro-anatomy</td>
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<td>Obstetrics (Introduction to)</td>
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<td>*Physiology</td>
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<td>*Pathology</td>
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<td>Psychobiology</td>
<td>28</td>
<td>Pathological-Physiology Conferences</td>
<td>32</td>
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<td>*Pharmacology</td>
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<td>*Physiology</td>
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<td>Psychiatry (Introduction to)</td>
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<td>*Pathology</td>
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<td>Public Health and Hygiene</td>
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<td>Radiology</td>
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<td>*Surgery</td>
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<td>Total hours</td>
<td>1,016</td>
<td>Total hours</td>
<td>1,040</td>
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</table>

(Bacteriology to be transferred from first to second year in 1954-55—176 hours.)

*Major subjects.

### CLERKSHIPS

#### Third Year

Aside from 237 hours of lectures, this entire school year is devoted to clinical work on the wards of the two local hospitals. Each student spends 24 weeks on medicine and pediatrics, 12 weeks on surgery and 12 weeks on obstetrics and gynecology, including the subspecialties. Approximate hours total 1,920.

#### Fourth Year

The schedule for this year calls for full-time clinical work in general and specialty hospitals and the outpatient departments. Approximate hours total 1,920.

During the year 1954-55 the senior year will be reduced to 1,440.
STUDENT COUNCIL

Elected representatives from each class form a student council which meets with the Dean monthly during the academic year.

MEDICAL FRATERNITIES AND SOCIETIES

Beta Pi Delta Mu Chapter of Nu Sigma Nu 49 N. Prospect St.
(Founded 1880)

Alpha Gamma Sigma
(For Women, Founded at University of Vermont, 1924)

Alpha Chapter of Phi Chi
(Founded at University of Vermont, 1889)

Phi Delta Epsilon

THE OSLER CLINICAL SOCIETY

The Osler Clinical Society, which was organized in 1929, is composed of all undergraduate students in the College of Medicine. The society sponsors a series of lectures given by outstanding men in the field of medicine. It is supported by the students. The organization is governed by a board of executive officers elected annually by the members. The president for 1953 is Aldo L. Bellucci.

OFFICERS OF THE U.V.M. MEDICAL ALUMNI ASSOCIATION—1953

President—DR. RICHARD FARR, '14, Syracuse, N. Y.
Vice-President—DR. LOUIS HASTINGS, '23, Hartford, Conn.
Secretary-Treasurer—DR. J. C. CUNNINGHAM, '35, Burlington.
PERSONNEL

COLLEGE OF MEDICINE

FACULTY AND OTHER OFFICERS

PROFESSORS EMERITI

BENJAMIN DYER ADAMS Assistant Professor Emeritus of Surgery
M.D., University of Vermont, 1908.

LYMAN ALLEN . . . . . . . Professor Emeritus of Surgery
A.B., University of Vermont, 1893; M.D., 1896.

CLARENCE HENRY BEECHER . Professor Emeritus of Medicine
M.D., University of Vermont, 1900.

THOMAS STEPHEN BROWN . . . Professor Emeritus of Anatomy
M.D., University of Vermont, 1904.

WILLIAM EUSTIS BROWN . . . Professor Emeritus of Preventive Medicine

*ERNEST HIRAM BUTTLES . Professor Emeritus of Pathology
A.B., University of Vermont, 1901; M.D., 1908.

CHARLES FRANCIS DALTON Professor Emeritus of Public Health
M.D., University of Vermont, 1903.

OLIVER NEWELL EASTMAN . Professor Emeritus of Gynecology
M.D., University of Vermont, 1904.

FRED KINNEY JACKSON . . . Professor Emeritus of Physiology
A.B., University of Vermont, 1897; M.D., 1899.

CHARLES KIMBALL JOHNSON . Professor Emeritus of Pediatrics
M.D., University of Vermont, 1899.

DAVID MARVIN . . . . Professor Emeritus of Pharmacology
M.D., University of Vermont, 1900.

CHARLES PERKINS MOAT . . . Assistant Professor Emeritus
B.S., Massachusetts Institute of Technology, 1896.

VIOLA RUSSELL . . . . Instructor Emeritus in Public Health
A.B., Vassar, 1913; M.D., University of Michigan, 1917.

GEORGE MILLAR SABIN . Professor Emeritus of Clinical Surgery
B.S., University of Vermont, 1896; M.D., 1900.

EMMUS GEORGE TWITCHELL . Professor Emeritus of Ophthalmology, Otolaryngology, and Rhinology
A.B., Queen's University, Canada, 1902; M.D., C.M., 1906.

CHARLES FLAGG WHITNEY . Professor Emeritus of Biochemistry
B.S., University of Vermont, 1897; M.D., 1903; and Toxicology
M.S., 1904.

* January 11, 1953.
PROFESSORS

HOVEY JORDAN. Professor of Histology and Embryology
Ph.B., University of Vermont, 1913; M.S., 1914; A.M., Harvard, 1916.

ARTHUR BRADLEY SOULE, JR. Professor of Radiology
A.B., University of Vermont, 1925; M.D., 1928.

HAROLD BARNARD PIERCE Professor of Biochemistry
B.S., Massachusetts State College, 1917; M.S., Pennsylvania State College,
1921; Ph.D., University of Rochester, 1928.

ALBERT GEORGE MACKAY Professor of Surgery
B.S., University of Vermont, 1929; M.D., 1932.

Bjarne Pearson Professor of Pathology
B.S., University of Minnesota 1927; M.B., 1929; M.D., 1930;
M.S. (Med.), 1932.

FERDINAND JACOB MORRIS SICHEL Professor of Physiology and
B.Sc., McGill, 1928; Sc.M., New York University, 1930; Biophysics
Ph.D., 1934.

ELLSWORTH LYMAN AMIDON Professor of Medicine
B.S., Tufts College, 1927; M.D., University of Vermont, 1932;

WILHELM RAAB Professor of Experimental Medicine
M.D., University of Vienna, 1920;
M.D., German University of Prague, 1926.

RUPERT ADDISON CHITTICK Professor of Psychiatry
B.S., University of Nebraska, 1923; M.A., 1924;
M.D., Harvard Medical School, 1929.

WALFORD TUPPER REES Professor of Clinical Surgery
M.D., University of Vermont, 1924.

PAUL KENDRICK FRENCH Professor of Clinical Medicine
Ph.B., University of Vermont, 1920; M.D., 1923.

FRED W. GALLAGHER Professor of Bacteriology
A.B., Western Reserve University, 1929;
M.A., Ohio State University, 1936; Ph.D., 1939.

JOHN CHARLES CUNNINGHAM Professor of Ophthalmology
A.B., University of Vermont, 1931; M.D., 1935.

JOHN ABAJIAN, JR. Professor of Anesthesia
M.D., New York Medical College, 1937.

FRED WILLIAMS DUNIHUE Professor of Histology and
A.B., Wabash College, 1929; M.S., New York University, Embryology
1931; Ph.D., 1934.

*WINTHROP MAILLOT FLAGG Professor of Urology
M.D., University of Vermont, 1934.

GEORGE ADAM SCHUMACHER Professor of Neurology
B.S., Pennsylvania State College, 1932; M.D., Cornell, 1936.

* On leave.
CHESTER ALBERT NEWHALL .......... Professor of Anatomy
A.B., North-Western College, 1924; M.D., University of Vermont, 1928.

JOHN FIDLAR DALY .......... Professor of Dermatology
B.S., Knox College, 1926; M.D., University of Pennsylvania, 1930.

RAYMOND MADIFORD PEARDON DONAGHY .......... Professor
B.S., University of Vermont, 1933; M.D., 1936. of Neurosurgery

WILLIAM VAN BOGAERT ROBERTSON Professor of Biochemistry
M.E., Stevens Institute of Technology, 1934; and Associate Professor
Ph.D., University of Freiburg, 1937. of Experimental Medicine

GEORGE ANTHONY WOLF, JR. ....... Professor of Clinical Medicine
B.S., New York University, 1936; M.D., Cornell, 1941.

DURWARD JAMES SMITH ....... Professor of Pharmacology
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ASSOCIATE PROFESSORS

ROBERT BASCOM AIKEN .......... Associate Professor of Preventive Medicine
Ph.B., University of Vermont, 1931;
M.S., 1933; M.D., 1937; M.P.H., Harvard, 1948.

SINCLAIR TOUSEY ALLEN, JR. .... Associate Professor of Medicine
B.A., Williams College, 1936; M.D., Harvard, 1940.

JOHN FRYE BELL .... Associate Professor of Orthopedic Surgery
A.B., Yale, 1931; M.D., Harvard, 1935.

ALFRED HAYES CHAMBERS .... Associate Professor of Physiology
and Biophysics
A.B., Swarthmore, 1936;
Ph.D., University of Pennsylvania, 1942.

PAUL DENNISON CLARK .... Associate Professor of Pediatrics
M.D., University of Vermont, 1926.

ROY EDWARD CORLEY .......... Associate Professor of Pediatrics
A.B., Holy Cross College, 1921; M.D., University of Vermont, 1925.

ARTHUR GLADSTONE .... Associate Professor of Clinical Surgery
B.S., University of Vermont, 1928; M.D., 1931.

*THEODORE HENRY HARWOOD Associate Professor of Medicine
and Director of Dispensary
A.B., Hamilton College, 1932;
M.D., University of Vermont, 1936.

MERTON PHILIP LAMDEN .... Associate Professor of Biochemistry
B.S., University of Massachusetts, 1941; Ph.D., Massachusetts Institute
of Technology, 1947.

EUGENE LEPESCHKIN .... Associate Professor of Experimental Medicine
M.D., University of Vienna, 1939.

JOHN VAN SICKLEN MAECK .... Associate Professor of Obstetrics
and Gynecology
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* Since September 1, 1953, Dean of the School of Medicine,
University of North Dakota.
ROBERT JAMES MCKAY, JR. Associate Professor of Pediatrics and Markle Foundation Scholar in Medical Science
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OSCAR SYLVANDER PETERSON, JR. Associate Professor of M.D., University of Vermont, 1936.
Radiology and Associate in Biophysics

ARNOLD HAROLD SCHEIN Associate Professor of Biochemistry
B.S., College of the City of New York, 1936; Ph.D., University of Iowa, 1943.

WILLIAM JOSEPH SLAVIN, JR. Associate Professor of Obstetrics and Gynecology
B.S., University of Vermont, 1933; M.D., 1935.

JOSEPH WORCESTER SPELMAN Associate Professor of Pathology and Lecturer in Medical Jurisprudence
B.S., Yale, 1941; M.D., 1944.

ERNST STARK Associate Professor of Pathology
B.S., Columbia, 1933; M.D., Long Island, 1939.

WALTER ALVA STULTZ Associate Professor of Anatomy
A.B., Acadia, 1927; Ph.D. Yale, 1932.

KEITH FRANK TRUAX Associate Professor of Surgery
B.S., University of Vermont, 1928; M.D., 1931.

HIRAM EUGENE UPTON Associate Professor of Clinical Medicine
B.S., St. John's College, 1924; M.D., University of Maryland, 1927.

FREDERICK WILLIAM VAN BUSKIRK Associate Professor of Radiology
A.B., University of Pennsylvania, 1930; M.D., 1933.

LESTER JULIAN WALLMAN Associate Professor of Neurosurgery
A.B., Yale, 1934; M.D., 1938.

EPHRAIM WOLL Associate Professor of Pathology
B.S., Creighton, 1938; M.D., 1942.

ASSISTANT PROFESSORS

JOHN HARDESTY BLAND Assistant Professor of Medicine
A.B., Earlham College, 1939; M.D., Jefferson Medical College, 1943.

ROY VEDDER BUTTLES Assistant Professor of Pathology
B.S., University of Vermont, 1937; M.D., 1940.

BENJAMIN FRANKLIN CLARK Assistant Professor of Obstetrics and Gynecology
B.S., University of Vermont, 1930; M.D., 1933.

OLIVER ROLFE EASTMAN Assistant Professor of Obstetrics and Gynecology
B.S., University of Vermont, 1935; M.D., 1938.

ARTHUR HOWARD FLOWER Assistant Professor of Dermatology
A.B., Heidelberg, 1938; M.D., Duke, 1942.

HOWARD THEODORE GUARE Assistant Professor of Radiology
M.D., University of Vermont, 1934.
ELBRIDGE EUGENE JOHNSTON. Assistant Professor of Medicine
M.D., University of Vermont, 1936.

KERMIT EDWARD KRANTZ. Assistant Professor of Obstetrics and Gynecology

ELIZABETH KUNDERT. Assistant Professor of Psychiatry
B.S., University of Wisconsin, 1920; M.S., 1924; M.D., Women’s Medical College of Pennsylvania, 1926.

PETER PAUL LAWLOR. Assistant Professor of Otolaryngology and Rhinology
M.D., University of Vermont, 1920.

INA MAXSON. Assistant Professor of Medical Technology and Assistant in Clinical Pathology
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KARL CORNELIUS McMAHON. Assistant Professor of Otolaryngology and Rhinology
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EDWARD DOUGLAS McSWEENEY. Assistant Professor of Gynecology
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GORDON MONTGOMERY MEADE. Assistant Professor of Medicine
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B.A., University of Richmond, 1939; M.D., University of Rochester, 1943.

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CHARLES WATTLES STEPHENSON. Assistant Professor of Psychiatry
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RALPH DANIEL SUSSMAN  
Assistant Professor of Pediatrics  
B.S., University of Vermont, 1935; M.D., 1938.

CHARLES IVES TAGGART  
Assistant Professor of Oral Hygiene  
D.M.D., Tufts Dental School, 1921; and Dental Medicine

CHRISTOPHER MARLOWE TERRIEN  
Assistant Professor of Clinical Medicine  
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MARSHALL COLEMAN TWITCHELL, JR.  
Assistant Professor of Ophthalmology  
A.B., Williams, 1934; M.D., Harvard, 1938.

WALTER LEROY WILSON  
Assistant Professor of Physiology  
B.S., State Teachers College, West Chester, Pa., 1940; and Biophysics  
Ph.D., University of Pennsylvania, 1949.

RICHARD S. WOODRUFF  
Assistant Professor of Pathology  
B.A. Yale, 1922; M.D., C.M., McGill, 1928.

WILLIAM GREENHILL YOUNG  
Assistant Professor of Psychiatry  
M.D., University of Toronto, 1930.

VISITING STAFF

DAVID MARSH BOSWORTH  
Consultant in Orthopedic Surgery  
A.B., University of Vermont, 1918; M.D., 1921.

THOMAS WRIGHT MOIR CAMERON  
Visiting Professor of Tropical Medicine  

INSTRUCTORS

RICHARD WALKER AMIDON  
Instructor in Medicine  
B.S., University of Vermont, 1941; M.D., 1943.

RALPH BANNISTER  
Instructor in X-Ray Technique  

GEORGE WILSON BROOKS  
Instructor in Psychiatry  
B.S., University of New Hampshire, 1941; M.D., University of Vermont, 1944.

ROBERT NOLAN CAIN  
Instructor in Clinical Surgery  
B.S., University of Vermont, 1943; M.D., 1945.

MARTIN JOHN CANNON  
Instructor in Clinical Obstetrics  
B.S., University of Vermont, 1943; M.D., 1945; and Gynecology

MAURICE RAYMOND CARON  
Instructor in Psychiatry  
A.B., St. Michael's, 1930; M.D., University of Vermont, 1936.

JULIUS GEORGE COHEN  
Instructor in Psychiatry  
B.S., University of Vermont, 1942; M.D., 1945.

DOROTHY BLACK CORBIN  
Instructor in Pediatrics  
B.S., Simmons, 1932; M.D., Tufts 1939.

ALBERT JAMES CRANDALL  
Instructor in Clinical Surgery  
B.S., University of Vermont, 1930; M.D., 1933.
WILLIAM STEPHEN DEMPSEY... Instructor in Clinical Surgery  
A.B., Holy Cross, 1937; M.D., University of Vermont, 1941.

GINO ALDO DENTE... Instructor in Anesthesia  
M.D., University of Vermont, 1941.

DONALD MERRITT ELDRED... Instructor in Clinical Psychology  
A.B., Oberlin, 1931; A.M., Columbia, 1942.

LOUIS WILLIAM ESPOSITO... Instructor in Urology  
B.S., University of Notre Dame, 1931;  
M.D., Johns Hopkins University, 1935.

WILLIAM THOMAS FAGAN, JR... Instructor in Clinical Urology  
B.S., University of Vermont, 1945; M.D., 1948.

J. LOUIS PHILIPPE FOREST... Instructor in Clinical Psychiatry  
A.B., University of Montreal, 1920; M.D., 1925.

ERALD FAIRBANKS FOSTER... Instructor in Public Health  
M.D., University of Vermont 1927.

ALDO GINO FRANCESCHI... Instructor in Urology  
M.D., University of Vermont, 1933.

*CARLETON RAYMOND HAINES... Instructor in Surgery  
B.S., University of Vermont, 1941; M.D., 1943.

NILO ERNESTO HERRERA... Instructor in Pathology  
M.D., University of Santo Domingo, 1950.

WILLIAM HERBERT JOHNSTON... Instructor in Radiology  
B.S., University of Vermont, 1940; M.D., 1943.

LEONARD S. KAPLOW... Laboratory Instructor in Clinical Pathology  
B.S., Rutgers, 1941.

JAY EDGAR KELLER... Instructor in Clinical Surgery  
M.D., University of Vermont, 1940.

RAYMOND FRANK KUHLMANN... Instructor in Orthopedic Surgery  
B.A., University of Wisconsin, 1936; M.D., Washington University, 1939.

JOHN FREDERICK LYNCH... Instructor in Clinical Surgery  
B.S., University of Vermont, 1931; M.D., 1934.

WILLIAM HOOPER MACMILLAN... Instructor in Pharmacology  

JAMES BISHOP MCGILL... Instructor in Surgery  
B.S., University of Vermont, 1944; M.D., 1946.

KATHERINE ELLA MCSWEENEY... Instructor in Clinical Medicine  
A.B., University of Vermont, 1922; A.M., Columbia, 1924;  
M.D., University of Vermont, 1930.

HENRY LEE MILLS... Instructor in Public Health  
D.V.M., Grand Rapids Veterinary College, 1911.

DOROTHY JACKSON MORROW... Instructor in Pediatrics  
B.S., Boston University, 1936; M.D., Tufts, 1940.

* Absent on leave
HENRI LOUIS PACHE  Instructor in Clinical Surgery  
B.S., University of Vermont, 1941; M.D., 1944.

HENRY LEWIS PRATT  Instructor in Obstetrics and  
Gynecology  
B.S., University of Vermont, 1938; M.D., 1941.

WILLIAM ARTHUR PRATT  Instructor in Clinical Medicine  
B.S., University of Vermont, 1941; M.D., 1943.

ELMER MCCREADY REED  Instructor in Otolaryngology  
and Rhinology  
B.S., Allegheny, 1932;  
M.D., Jefferson Medical College, 1936.

ROBERT NEWTON SAXBY  Instructor in Radiology  
B.S., University of Vermont, 1937; M.D., 1941.

WILLIAM IRELAND SHEA  Instructor in Clinical Surgery  
A.B., Holy Cross, 1936; M.D., University of Vermont, 1940.

JAMES EDWIN SIMPSON  Instructor in Orthopedic Surgery  
B.S., University of Vermont, 1941; M.D., 1943.

ROBERT PEASE SMITH  Instructor in Medicine  
A.B., Princeton, 1939; M.D., Harvard, 1943.

DAVID LATHAM TABER  Instructor in Clinical Obstetrics  
and Gynecology  
M.D., Long Island, 1946.

LOUIS GEORGE THABAULT  Instructor in Surgery  
M.D., University of Vermont, 1930.

EDWARD LAWRENCE TRACY  Instructor in Public Health  
B.S., University of Vermont, 1926.

MARTIN WESLEY WILLIAMS  Instructor in Physiology  
A.B., Anderson, 1948; Ph.D., Ohio State, 1953.

RESIDENTS AND FELLOWS

HIROSHI AZAMA  Resident in Pathology  
B.S., Kagoshima High School, 1937; M.D., Kyushu University, 1941.

FRANCIS ARNOLD CACCIVO  Resident in Surgery  
A.B., Syracuse, 1940; M.D., University of Vermont, 1943.

PAUL EDWARD CORLEY  Resident in Radiology  
B.S., University of Vermont, 1941; M.D., 1952.

HUMBERTO MUNOZ CRAVIOTO  Resident in Pathology  
B.B.S., Institute Scientific and Literary of Bachuca, 1943;  
M.D., University of Mexico, 1952.

PETER STANLEY CZACHOR  Resident in Obstetrics and  
Gynecology  
B.S., University of Vermont, 1942; M.D., 1950.

EVERETT LEE DAVIS  Resident in Obstetrics and Gynecology  
B.S., University of Vermont, 1940; M.D., 1943.

VITTORIO DEFENDI  Fellow in Pathology  
M.D., University of Pavia, 1951.

WILLIAM RAYMOND DWYRE  Resident in Surgery  
M.D., University of Ottawa, 1953.
JOSEPH CLAYTON FOLEY. Resident in Radiology
B.S., Middlebury, 1939; M.A., New York State College, 1940;
M.D., University of Vermont, 1949.

NATHAN GLOVER. Resident in Anesthesia
B.S., Massachusetts College of Pharmacy, 1941; A.M., Boston University,
1943; Ph.D., University of Rochester, 1948; M.D., University of Vermont,
1952.

FRITZ H. HOLTHAUS. Resident in Medicine
M.D., University of Munich, 1952.

HARRY ELWIN HOWE. Resident in Surgery

ROBERT JACOB HUNZIKER. Resident in Radiology
A.B., University of Vermont, 1948; M.D., 1952.

ROBERT CLINTON JACKSON. Resident in Obstetrics and
B.S., University of Oregon, 1944; M.D., 1947.

ALLAN TEWKSBURY JONES. Resident in Anesthesia
B.S., University of Vermont, 1943; M.D., 1951.

JOHN CLIFFORD LANTMAN. Resident in Medicine
B.S., University of Vermont, 1948; M.D., 1951.

MURDO GLENN MACDONALD. Resident in Medicine
B.S., University of Vermont, 1948; M.D., 1951.

NICHOLAS CONSTANTINE MARCOPOULOS. Resident in Pathology
M.D., National and Kapodistrian University of Athens, 1946.

CEDRIC LLEWELLYN MATHER. Resident in Medicine
A.B., University of Illinois, 1939; S.T.B., Berkeley Divinity School, 1942;
M.D., University of Vermont, 1952.

JAVIER CAPETILLO MENESES. Resident in Pathology
M.D., University of Mexico, 1950.

FRANK IVAN PITKIN. Resident in Medicine
M.D., University of Vermont, 1949.

ROGER POIRIER. Resident in Pediatrics
B.A., St. Laurent, 1945; M.D., Montreal, 1951.

ROBERT EMMETT PRICE. Resident in Radiology
M.D., Hahnemann, 1950.

TRAVERS ROBBINS. Resident in Medicine
M.D., University of Buffalo, 1952.

HABIBUZ ZAMAN. Resident in Pathology
B.S., M.B., Dacca University, 1951.

ASSOCIATES

EDWIN PITCHER BASSETT. Research Associate in Pathology
M.D., University of Vermont, 1951.

JOHN PATRICK CORLEY. Clinical Associate in Medicine
A.B., Holy Cross, 1937; M.D., University of Vermont, 1945.
OLIVE MORRIS DAVIES  . . . . . . . Research Associate in Pediatrics
A.B., University of Vermont, 1946; M.D., 1950.

NATHAN GLOVER  . . . . . . . Research Associate in Pharmacology
B.S., Massachusetts College of Pharmacy, 1941; A.M., Boston University, 1943; Ph.D., University of Rochester, 1948; M.D., University of Vermont, 1952.

WILLIAM HENRY HEININGER  . . . Clinical Associate in Medicine
M.D., University of Vermont, 1939.

MOHAMED JUSE MAHJU  . . . . . Research Associate in Pathology
B.S., M.B., King Edward Medical College, 1929;

JOHN HENRY McCREA  . . . . . Clinical Associate in Medicine
B.S., University of Vermont, 1935; M.D., 1938.

ROBERT EMMETT O'BRIEN  . . . Clinical Associate in Medicine
B.S., St. Michael's, 1942; M.D., University of Vermont, 1945.

ESTELLE PODBER  . . . . . . . Research Associate in Pathology
A.B., Brooklyn College, 1948; M.S., University of Vermont, 1952.

JANE THURLOW  . . . . . . . Research Associate in Pathology
B.S., University of New Hampshire, 1948; Ph.D., Rutgers, 1953.

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JOHN CHARLES BOLDOSSER  . . . Senior Technician in Pathology
DALLAS RICHARD BOUSHEY  . . . Senior Technician in Anatomy

NURSE
MRS. EDYTHE BARKER LADD, R.N.

SOCIAL WORKER
SIBYL MERRIAM HOWE  . . . . . . . Social Worker
B.L.I., Emerson, 1934; M.S.S., Boston University, 1948.

ASSISTANTS
SEYMOUR ALPERT  . . . . . . . Research Assistant in Pharmacology

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MARY BREEN . . . . . . Teaching Assistant in Clinical Pathology
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NANCY ANN CRANE . . . . . . Research Assistant in Medicine and
B.S., University of Vermont, 1953. Obstetrics-Gynecology

MRS. ANN BAKER DURBROW Research Assistant in Biochemistry

MRS. JANE FULLER . . . . . . Research Assistant in Pathology

WILDA ROMAYNE GIGEE . Research Assistant in Experimental
A.B., Alfred University, 1939. Medicine

HUBERT ALEXANDER HINDS Research Assistant in Experimental
B.S., Alabama State College, 1949; Medicine
M.Ed., 1951.

JANICE ELOISE LARRABEE . Research Assistant in Physiology
B.A., University of Vermont, 1950. and Biophysics

EDWARD FREDERICK MERRILL . . . . . . Teaching Assistant in
B.S., University of Vermont, 1951. Biochemistry

BARBARA ALICE MOORE . Teaching Assistant in Biochemistry

ROBERT EDWARD PHILLIPS Research Assistant in Pharmacology
B.S., Rutgers, 1953.

JEAN MARGARET RYAN . . . . . . Research Assistant in Pathology
B.S., University of Vermont, 1947.

CRISTINA ELIZABETH SCHWEIKER . . . . . . Research Assistant in
A.B., Middlebury, 1951. Biochemistry

EMILY MAE YOUNG . . . . . . Teaching Assistant in Biochemistry
B.S., University of Vermont, 1950.
STANDING COMMITTEES

Admissions—Dean Wolf*; Drs. Saunders (3 yrs); Pierce (1 yr.); Dunihue (2 yrs.); Soule (2 yrs.); Young (3 yrs.).

Advancement—Dr. Pierce*, Drs. Amidon, Cunningham, Mackay, Maeck, McKay, Newhall, Pearson, Schumacher, Sichel and D. Smith.

Intern—Dr. McKay*, Drs. Bland, McGill, Miller, Terrien, Upton and Sims.

Advisory—Dean Wolf*, Drs. Amidon, Cunningham, Gallagher, Mackay, Maeck, Newhall, Pearson, Pierce, Schumacher (1 yr.), Sichel and D. Smith.

Subcommittees of the Advisory Committee:

Building (temporary committee)—Dean Wolf*, Drs. Bell, Dunihue, French, Eastman, Jordan, Krantz, McKay, Morrow, Raab, Rees, Soule and Van Buskirk.

Correlation Conference—Dr. Allen*, Drs. Chambers, Cohen, Gallagher, McKay, Rees, Robertson, Schein, Stultz and Woll.

Curriculum—Dr. Dunihue*, Drs. Krantz, Robertson, Schumacher and Woll.

Library—Dr. Dunihue*, Drs. Flower, Lamden, Thabault, Robertson and Wilson.

Postgraduate Education—Dr. French*, Drs. Abajian, Aiken, Gladstone, Miller, Slavin and Young.

* Chairman of Committee.
GRADUATES—INTERNSHIP
APPOINTMENTS

JUNE 1953

Richard MacDonald Adams, B.S.
Mary Fletcher Hospital, Burlington

Philip Adler, A.B.
Children’s Hospital, Boston, Mass.

John Xavier Basile
St. Francis Hospital, Hartford, Conn.

William David Basque, A.B.
Gorgas Hospital, Canal Zone

Bertrand Philip Bisson, A.B.
Mary Fletcher Hospital, Burlington

James Hall Bonney, A.B.
Naval Hospital, Chelsea, Mass.

Charles Riford Boyce, A.B.
Henry Ford Hospital, Detroit, Mich.

Edward Hobart Brazell, Jr., B.S.
San Bernardino County Hospital, Calif.

Douglas Buchanan, B.A.
Greenwich Hospital, Greenwich, Conn.

Michael Seth Burnhill, A.B.
New England Center Hospital, Boston, Mass.

George Hubert Collins, A.B.
Mary Fletcher Hospital, Burlington

Valmore Francis Cross, B.S.
St. Vincent’s Hospital, Bridgeport, Conn.

Robert Isaac Davies, B.S.
Mary Fletcher Hospital, Burlington

Philip Hovey Davis, B.S.
Mary Fletcher Hospital, Burlington

John Randall Eddy, B.S.
Beverly Hospital, Beverly, Mass.

Richard Neil Fabricius, B.S.
Albany Hospital, Albany, N. Y.

Emmett Lawrence Fagan, Jr., A.B.
Syracuse Medical Center Hospital, Syracuse, N. Y.

Adolph Frederick Friedman
U. S. Public Health Service Hospital, Boston, Mass.

Emanuel Goldberg, A.B.
Beth Israel Hospital, New York, N. Y.

Martin Goodman, A.B.
Mt. Sinai Hospital, Cleveland, O.

Roger Francis Greenslet, A.B.
Beverly Hospital, Beverly, Mass.

Delbert Dean Griffith, B.S.
White Cross Hospital, Columbus, O.

Earl Murdock Head, D.M.D.
George Washington University Hospital, Washington, D. C.

Edward Joseph Hogan, Jr., B.S.
Memorial Hospital, Worcester, Mass.

Myrtle Douglas Johnson, A.B.
Kings County Hospital, Brooklyn, N. Y.
Bernard Kabakow, B.S., M.A. Mt. Sinai Hospital, New York, N. Y.
David Leslie Kendall, B.S. Henry Ford Hospital, Detroit, Mich.
Wayne Stevenson Limber, B.A.
Syracuse Medical Center Hospital, Syracuse, N. Y.
Thomas Allan McCormick, B.S.
Brooklyn Hospital, Brooklyn, N. Y.
Robert John Manjoney, B.S.
St. Vincent's Hospital, Bridgeport, Conn.
David Lincoln Maxham, B.S. Providence Hospital, Detroit, Mich.
Gerald Nicholas Needleman, B.S.
Jefferson Medical College Hospital, Philadelphia, Pa.
Raymond William Peppard, A.B.
Mary Hitchcock Memorial Hospital, Hanover, N. H.
Lawrence Burdett Perry, A.B. Ellis Hospital, Schenectady, N. Y.
Anna Condos Pratt (Mrs.), B.S.
Syracuse Medical Center Hospital, Syracuse, N. Y.
Frederick Edward Pratt, B.S.
Syracuse Medical Center Hospital, Syracuse, N. Y.
Oney Percy Smith, Jr., B.S. Providence Hospital, Detroit, Mich.
Thaddeus Stabholz
Mary Fletcher Hospital, Burlington
John Cushman Twitchell, B.S.
Hartford Hospital, Hartford, Conn.
Richard Charles Wolff, A.B.
Syracuse Medical Center Hospital, Syracuse, N. Y.
John Anthony Zagroba, A.B. Mary Fletcher Hospital, Burlington
PRIZES
JUNE 1953

CARBEE PRIZE
For greatest proficiency in the subject of Obstetrics
Martin Goodman, A.B.

WOODBURY PRIZES IN MEDICINE
For greatest proficiency in Clinical Work in senior year
Lawrence Burdett Perry, A.B.
To the sophomore having the highest standing for two years of Medical Work
Stanley Livingston Burns, Jr., A.B.

LAMB FOUNDATION PRIZES
To the students showing greatest comprehension and appreciation of the Doctor-Patient Relationship
First: Joseph George Pomponio, B.S.
Second: Michael Seth Burnhill, A.B.
Third: Philip Hovey Davis, B.S.

ALPHA OMEGA ALPHA
National Honor Medical Society
George Hubert Collins, A.B.
Martin Goodman, A.B.
Lawrence Burdett Perry, A.B.
FOURTH YEAR:

John Goldthwaite Adams, A.B.  
Salem, Mass.

Joseph Albert  
Dorchester, Mass.

Aldo Louis Bellucci, A.B.  
Manchester, Conn.

Eugene Julius Bluto, A.B.  
Grand Isle, Vt.

Dewees Harold Brown  
Donora, Pa.

William Frederick Byrnes, B.S.  
Burlington

John Joseph Cabill  
Bennington

Lucien Joseph Cote, B.S.  
Lyndonville

Allyn Bernard Dambeck, A.B.  
W. Hartford, Conn.

Gerard Lucian Daniel  
Swanton

Norman Franklin Dennis, Jr., A.B.  
St. Albans

George Themistocles Economos, M.D.  
Athens, Greece

Leslie Herbert Gaalen, B.S.  
Glen Ridge, N. J.

Manfred Isaac Goldwein, B.S.  
Wilmington, Del.

Sarita Goodman, B.S.  
Brooklyn, N. Y.

Bernard Adolphus Gouchee, B.S.  
Rutland

Joseph Anthony Jurkoic, Jr., B.S.  
Bellows Falls

Francis Alexander Klimaszewski, A.B., M.ED.  
Ansonia, Conn.

Mark Harold Lane, B.A.  
Portland, Me.

Herbert Jason Levine, B.A.  
Newton, Mass.

Clifford Goadby Loew, Jr., B.A.  
Poughkeepsie, N. Y.

Michael John Lynch, B.S.  
Poultney

Benjamin Harris MacK. Jr., A.B.  
Shelburne

John Edmund Mazuzan, Jr., B.S.  
Northfield

Edmund Brown McMahon, B.S.  
Burlington

David Lothrop Mosiman, A.B.  
S. Gardner, Mass.

Margaret Newton, A.B.  
S. Windham

Elsie Frances Noe, B.A.  
Beacon Falls, Conn.

Jacqueline Noonan, B.A.  
Hartford, Conn.

Peter John Palmisano, B.S.  
Barre

Richard Bonner Presbrey, B.S.  
Waban, Mass.

Robert Sumner Richards, B.S.  
Danvers, Mass.

James Seward Shea, A.B.  
Bennington

Marvin Silk, A.B.  
Providence, R. I.

Herbert Carl Sillman, B.A.  
W. Hartford, Conn.

Wendell Earl Smith, A.B.  
Randolph

John Peter Tampas, B.S.  
Burlington

Thomas Bartholemew Tomasi, Jr., A.B.  
Burlington

Henry Carmer Van Buren, A.B.  
Burlington

Herbert White, A.B., M.S.  
Lawrence, Mass.

Michael Wiedman, A.B.  
Burlington

Kenneth Owen Williams, A.B.  
New York, N. Y.

Sumner Jason Yaffe, A.B., M.A.  
Mattsan, Mass.

THIRD YEAR:

Nicholas George Alexiou, A.B.  
Manchester, N. H.

Robert Anthony Astone, A.B.  
Bacon, N. Y.

Richard Hubbard Bailey, B.S.  
Claremont, N. H.

Samuel Barrera  
Middlebury

Bruce Andrew Becker, B.S.  
Warrensburg, N. Y.

George Bouras, B.S., M.S.  
Newmarket, N. H.

Peter Vero Bove, B.A.  
Bristol, Conn.

Edward Francis Bridges, B.A.  
Mars Hill, Me.

Stanley Livingston Burns, Jr., A.B.  
Proctor

Richard Keith Clarke  
Richford

John Thomas Conroy, B.S.  
Meriden, Conn.

Ramon Sy-Juco de Jesus, B.S.  
Malabon, Rizal, Philippine Islands

Paul Edward Demick, A.B.  
Orleans

George Theodore Diamandopoulos, B.A.  
Athens, Greece
Arthur Richard Dimambro, B.S. 
Dover, N. H.

Timothy James Driscoll, Jr., B.S., M.S. 
Portsmouth, N. H.

John Richard Fitzgerald, B.S. 
Winooski

Henry Charles Forrester 
Weehawken, N. J.

Herbert Gershovitz, B.S. 
Providence, R. I.

Theodore Joseph Goodman, B.S. 
Chelsea, Mass.

Bernard Norman Gotlib, B.A. 
Bangor, Me.

Duane Edgar Graveline 
Derby

Raymond Lewis Hackett, B.A. 
Saco, Me.

Ernest Oliver Herreid, B.S. 
Urbana, Ill.

George Frank Higgins, B.A. 
Presque Isle, Me.

Walter Louis Hogan, B.S. 
W. Hartford, Conn.

Edward Suter Irwin, B.S., M.S., O.D. 
St. Albans

Eugene Donald Jacobson, B.A. 
Bridgeport, Conn.

Victor Kaljot 
Brooklyn, N. Y.

Marshall Gene London, A.B. 
Hartford, Conn.

Robert William McCauley, A.B. 
Burlington

Arthur Joseph McPadden, Jr., A.B. 
Bridgeport, Conn.

Robert Henry Mintzer 
Burlington

Leo Richard Parnes, B.S. 
Brockline, Mass.

Edwin Oxman Polish, B.S. 

Robert Lee Pratt, A.B. 
Manchester, N. H.

Richard Benjamin Raynor, B.S. 
Forest Hills, N. Y.

Arthur Urban Roberge 
Winooski

Albert Anthony Romano, A.B. 
White River Jct.

Richard Sumner Rosen, B.S., M.S. 
Brockline, Mass.

Donald Francis Shea, B.S. Bennington

Robert Theodore Silvery, A.B., A.M. 
Belmont, Mass.

Stuart James Smith, A.B., M.ED. 
Burlington

John Jerome Sowles, B.S. Randolph

Paul Giles Stevens, A.B. 
Gardiner, Mass.

Ronald Roger Striar, B.A. 
Bangor, Me.

Stanley Walzer, A.B. 
Forest Hills, N. Y.

Arthur Sigmund Weissbein, A.B. 
Methuen, Mass.

SECOND YEAR:

Marvin Charles Adams, B.A. 
Orono, Me.

James Thurston Bailey, B.S., M.S. 
Whitefield, N. H.

John Marshall Hopkins Barnard, B.A. 
Gardiner, Me.

Laurence Metcalf Bixby 
Burlington

Douglas Mitchell Black 
Barre

William Stanton Burnett, A.B. 
Williston

Elizabeth Ann Clark 
Burlington

Gerald Cohen, B.A., M.A. 
Chelsea, Mass.

Paul Joseph Driscoll, B.S. 
Portsmouth, N. H.

Philip Edward Emerson, B.S., M.A. 
Keene, N. H.

Martin Edward Flanagan 
N. Adams, Mass.

Edward David Fram, A.B. 

William Walter Frost, Jr., B.S. 
Concord, N. H.

Ira Harold Gessner, A.B. 
Hempstead, N. Y.

Herbert Irwin Goldberg, B.A. 
Forest Hills, N. Y.

Ira Greifer, B.S. 
Westfield, N. J.

Kenneth Ho, B.A. Hongkong, China

Donald Edward Holdsworth, A.B. 
Springvale, Me.

Fred Dewitt Holford, Jr., A.B. 
Cooperstown, N. Y.

Joseph Ryan Kelly 
Fair Haven

Frank Glasgow Lane, B.S. Burlington

Hugh Sanford Levin 
Newport

Philip Levin, A.B. 
Burlington
Don Richard Lipsitt, B.A., M.A.; Marion, Mass.
William Albert Long, B.S.; Castleton
John Sarkis Manuelian, B.S.; Quincy, Mass.
Joseph Edward Martin, B.A.; Mexico, Me.
Robert Bernard McLaughlin, B.S.; Florence
Theodore Leon Munsat, A.B.; Rutland
Edward Okun; Springfield, Mass.
William Fullerton Otis, Jr., B.A.; York, Pa.
Mark Ira Pitman; Bayside, N. Y.
David Allan Prince; Newark, N. J.
Joel Loren Rosenberg; Burlington
Joan Whitney Shea, A.B.; Annapolis, Md.

Samuel Sheinkman; New York, N. Y.
Victor Albert Silverman, B.A.; Danbury, Conn.
Saul Matthew Spiro, A.B.; Burlington
James Ward Stackpole, B.A.; Thomaston, Me.
John Richard Stenger, B.E.; Winooski
Robert Lyons Sullivan, B.S.; Schenectady, N. Y.
Kurt Weiss; Burlington
James Colin White, B.A.; Yonkers, N. Y.
John Burton Wilder, A.B.; Presque Isle, Me.
Valery Sidon Worth, A.B.; Nutley, N. J.
Harris Alfred Yandow, A.B.; N. Ferrisburg

Daniel George Fischer, B.S.; Hamden, Conn.
John C. Fulmer; Rye, N. Y.
Barton Jerome Gershon; Burlington
Charles Pantaleon Gnassi, A.B.; Jersey City, N. J.
Archie Sidney Golden, B.A.; New Milford, Conn.
Jerrold Gilbert Goldman, B.A., M.S.; Newark, N. J.
Leonard William Halling, B.A.; Aurora, Ill.
Patricia Anne Hoffman, A.B.; South Burlington
Howard Smith Irons, B.A.; Bennington
Philip Bernard Kaplan, B.A.; Bridgeport, Conn.
Peter Paul Lawlor, B.A.; Burlington
Denton Edward MacCarty, B.S.; Burlington
Bruce Russell MacKay, A.B.; Sheldon Springs
Peter Rolf Manes, B.A.; Bennington
Mark Richard Margiotta, B.A.; Waterbury, Conn.
Richard Noah Matus, B.S.; North Conway, N. H.
Thomas Craig McBride, B.A.; Chicago, Ill.
Walter Francis Miner, A.B.; Akron, Ohio
THE UNIVERSITY OF VERMONT

William Andrew O'Rourke, Jr., B.S.  Rutland
Stuart Oster, B.A.  Brooklyn, N. Y.
Carl Lee Perry, B.A.  Burlington
Francis Lee Perry  Rutland
Edward Joseph Quinlan, B.A.  Bristol, Conn.
Herbert Hunter Ruzicka, B.A.  Chatham, N. J.
Frank Joseph Schmetz, Jr., A.B.  Merchantville, N. J.
John Alfred Schremly, Jr., A.B.  Rutland
William Meyer Soybel, A.B.  Hamden, Conn.

George Michael Tirone, Jr., B.A.  Rochester, N. Y.
Hollis Norman Truax, B.A.  Burlington
Nathan Donnan Walkley, B.A.  Batavia, N. Y.
John Witik, B.A.  Plainville, Conn.
Evelyn Veronica Wittig, B.S.  Cranston, R. I.
Donald Nicholas Zelechosky, B.A., M.S.  New Haven, Conn.
Photograph Back Cover

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