1968

University of Vermont, College of Medicine Bulletin

University of Vermont

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The first General Assembly of the State of Vermont, convened in 1791, chartered The University of Vermont. Ira Allen, younger brother of Ethan, had given 4,000 pounds sterling to help establish the institution. Instruction was started in 1800 and the first class graduated four years later.

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History of the College of Medicine

The first General Assembly of the State of Vermont, convened in 1791, chartered The University of Vermont. Ira Allen, younger brother of Ethan Allen, had given 4,000 pounds sterling to help establish the institution. Instruction was started in 1800 and the first class graduated four years later.

Meanwhile Dr. John Pomeroy, for many years the leading physician of Burlington, began around the turn of the century to take pupils. In 1804 he was appointed Lecturer in Chirurgery and Anatomy and, in 1809, Professor of Physic, Anatomy and Surgery at the University. The position carried no stipend nor did the institution even provide a room in which to give instruction. By 1814 Pomeroy had so many students he could no longer accommodate them in his home and he consequently rented an empty store in which he lectured to a class of 12. His son, John N. Pomeroy (not a physician), added a course of lectures in chemistry in 1816 and to these the townspeople occasionally came out of interest in the demonstrations.

In 1822 a faculty of 5 professors including John Pomeroy and Nathan R. Smith was assembled and the Trustees of The University of Vermont ruled that the president might "confer medical degrees on such persons as shall attend the medical lectures and are recommended by the medical professors and lecturers of the University." Dr. Smith's father, the more famous Dr. Nathan Smith and the founder of the medical colleges of Dartmouth, Bowdoin, and Yale, is said to have helped in the organization of the Vermont school.

In the early years of the 19th century only a small portion of medical education took place in the universities. The part-time doctor of colonial times had given way to the full-time professional physician but there was no legal regulation of the practice of medicine. Most degrees and certificates, if they were obtained at all, were granted by the medical societies after the candidate had served as an apprentice.

William Beaumont, the Army Surgeon whose experiments on the physiology of digestion as performed on the person of the French Canadian youth, Alexis St. Martin, formed the basis of this science, began his medical career in Vermont.

While still a school teacher in Plattsburgh, N.Y., he is said to have paddled a canoe across Lake Champlain to read in the library of Dr. Pomeroy and later was apprenticed to Dr. Benjamin Chandler of St. Albans. The minutes of the Third Medical Society of Vermont record that on the second Tuesday of June, 1812 Beaumont "presented himself for examination in the different branches of the medical profession" and was approved.
In the late 1820's a group of local physicians interested some philanthropically-minded residents of Burlington in buying land for a medical college building adjacent to the University campus and in 1829 a two-story brick building was built. In 1828 Benjamin Lincoln, the grandson of the famous revolutionary general of the same name, was invited to Burlington to give a course of lectures in anatomy. Lincoln had had a classical education at Bowdoin and had been apprenticed to the fashionable and distinguished Dr. George Shattuck of Boston. Rustic and educationally unprepared as most of the Vermont students were, they were evidently entranced by Dr. Lincoln's beautiful demonstrations and the clarity of his presentations. He was offered the chair of anatomy and although the Universities of Maryland and Bowdoin both solicited him he chose Vermont, perhaps because he "hoped to realize . . . .his idea of a medical school in this University without the hindrance of encrusted organic remains from old formations." Lincoln soon became the leading light of the school which flourished for a few years. Unfortunately he became ill and in 1834 went back to his home in Maine to die. There were now two other medical schools in the State and an economic depression was developing. In 1836 after having granted 116 degrees in course and 24 honorary ones, the College of Medicine closed its doors.

There was a lapse until 1853 when after many tribulations, most of them financial, Drs. W. S. Thayer of Northfield and Walter Carpenter of Randolph succeeded in re-organizing the Medical College. Subscriptions were solicited from the medical professors and the Burlington townspeople and Mrs. Thayer held a "fair" which netted $450.00. The University provided a building (the same one which had been used by Dr. Lincoln and which still is in use, although for different purposes) on the academic campus. In spite of competition from the schools in Woodstock and Castleton in Vermont, and Hanover, N.H., courses were started and the school remained viable largely through the efforts and personal and professional distinction of Drs. Thayer and Carpenter, both of whom served successively as Dean. The average student attendance from 1859 to 1878 was about 65. Then under the deanship of Dr. A. P. Grinnell there was a period of rapid expansion reaching a high tide in 1884 when 101 young men were graduated in Medicine.

The University of Vermont College of Medicine was then, as were most others of the day, essentially a proprietary institution. The University provided some amenities, and it was to a considerable extent responsible for the success with which the College outlasted many of its competitors. The medical faculty was, however, a closed corporation collecting its own fees and providing its own administration. That this was not an ideal situation was apparent to the profession and in fact it was a movement toward
History

reform of medical education proposed by the Vermont State Medical Society in the 1840's which led to a national convention which later evolved into the American Medical Association. In 1899 the Trustees of the University, although as yet only dimly aware of the enormous responsibility, financial and otherwise, which this was to entail, took over complete control of the College of Medicine.

Medical education in the 19th century was didactic but clinical teaching, a rare luxury at first, became progressively more important. In 1879 the Mary Fletcher Hospital was built in Burlington and in 1924 the DeGoesbriand Memorial Hospital began to admit patients. Both became centers of clinical instruction and in 1967 the two institutions merged to form the Medical Center Hospital of Vermont, providing an even closer association with the Medical College while at the same time retaining long traditions of service to the sick.

During the post-World War II deanship of Dr. William E. Brown, the faculty of the College of Medicine began a period of exponential growth, adding a national and then international flavor to the academic medical community. Under Deans George A. Wolf, Jr., Robert J. Slater, and Edward C. Andrews, the responsibility of American medicine toward the developing nations of the world has been implemented, research has flourished, and the material resources of the institution have increased, culminating in the construction of a new medical college building completed in 1968. In expectation of this, 75 students were accepted for admission to the class entering in September 1968.

The physician, while still in most instances the captain of the health team, is being joined by increasing numbers of other professional personnel who bring to the care of the patient diverse disciplines, talents and techniques, many of them unknown a few years ago. The University has responded to this trend by two recent developments, one administrative and the other academic. In December of 1967, the Trustees approved the establishment of the Division of Health Sciences bringing together into an administrative unit, the College of Medicine, the School of Nursing and the newly founded School of Allied Health Sciences to include the courses of instruction in Dental Hygiene, Medical Technology and Radiological Technology. Others will undoubtedly be added.

The academic consequence of this increase in complexity has been the recognition that specialization, already well established in the patterns of medical practice, must begin early if the student is to obtain maximum benefit from his years in the Medical College. The curriculum has therefore undergone a major revision as will be seen in later pages of this brochure.
REQUIREMENTS FOR ADMISSION

Applicants to The University of Vermont College of Medicine are expected to complete the requirements for admission in a college or university accredited by the National Committee of Regional Accrediting Agencies of the United States, by July 1 preceding the September admission date. They should have completed one year each of the following college level courses: biology, English, mathematics, physics, general chemistry, organic chemistry, and a satisfactory one-semester course in quantitative chemistry or physical chemistry. The College of Medicine prefers candidates who have concentrated in one or more fields of interest, not necessarily in the life or physical sciences, and who present a background of active participation in the life of their college or university.

Students must satisfactorily complete all requirements for admission to the College of Medicine in any given year by July 1 preceding the September admission. Eligibility of an applicant for admission is determined by the Admissions Committee of the College of Medicine on the basis of the following:

The scholastic record of the applicant in his premedical work.

Personality and general fitness of the applicant for the study and practice of medicine as determined by recommendations of the applicant’s college teachers and others, and by personal interview with the Admissions Committee.

The applicant’s scores on the Medical College Admission Test. Such scores are taken into consideration but are not used as a final determinant in accepting students. Applicants are urged to take the Medical College Admission Test in May if a majority (all but one or two) of the required courses have been or will be completed by the end of that academic year.

Candidates invited for an interview are required to submit a health report completed by their college or university health service. (Not by their personal physician.)

A maximum of seventy-five students is admitted to each entering class. The faculty sincerely hopes that each entering student will successfully complete the medical curriculum and graduate with the degree of Doctor of Medicine.

Preference for admission is according to the following priorities:

Qualified residents of Vermont.

Qualified residents of other New England states having contractual arrangements.
with the College of Medicine through the New England Board of Higher Education. Contracts are presently in force with the states of Maine, New Hampshire, Massachusetts and Rhode Island.

Qualified residents of other areas.

Sons and daughters of alumni of the College of Medicine are given special consideration within the framework of the above policy.

Candidates are urged to submit their applications by October 15. The final closure date for receiving applications is January 1 preceding the September admission.

An application fee of ten dollars (not refundable), payable to The University of Vermont, must accompany all applications.

When an applicant who is not a Vermont resident is offered admission to the College of Medicine and wishes to accept the place offered, a deposit of $100 must be paid not later than two weeks following notice of acceptance in order to reserve a place in the entering class. This deposit is refundable up to March 1 preceding admission, should the student release his place in the class. The deposit is applied toward the student's tuition in the first semester upon matriculation in the College of Medicine. Checks should be made payable to The University of Vermont and sent to the Admissions Office, College of Medicine, University of Vermont, Burlington, Vermont 05401.

ENROLLMENT

All entering and returning students will register and be formally enrolled shortly after the opening of classes the week following Labor Day each September. Payment of tuition and fees for the first semester is required at this time. Residents of those states having contractual arrangements with the College of Medicine will be required to establish proof of residence prior to registration. A late registration fee will be charged students who fail to register on the day designated for registration.

Regulations for College of Medicine Students

Students are governed by the regulations as stated in the Bylaws of the College of Medicine. Some of the more pertinent regulations in these Bylaws are as follows:

ATTENDANCE

No student is eligible for a medical degree who has not been registered in medical school four complete consecutive years unless a leave of absence has been granted by
the Executive Committee. Resumption of study after other 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 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 character of his recitations, and upon the results of all examinations held
during and at the end of the courses.

b. Final examinations may or may not be held, at the option of the department
chairmen, with the approval of the Dean.

c. 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 the examination by the chairman of the department
or division.

d. If a student receives a failing grade in any final written examination or in any
course, the final written examination, if any, will be filed in the Dean’s Office.

e. The work of students is evaluated on the basis of A, B, C, and F. The lowest passing
grade is C.

f. Departments may apprise students of their grade in any examination. Students will
be notified of their final grade in each course.

g. Final course marks are to be reported to the Dean’s Office; if a course terminates
in mid-term, final marks will be reported to the Dean’s Office within two weeks after
such termination.

h. The scholastic records of all students will be reviewed by the Committee on
Advancement at the end of each course and may be reviewed at any time.

i. Students who fail one or more courses will not be permitted to continue with their
class except upon recommendation of the Advancement Committee and by vote of the
Faculty of Medicine. As a condition for such continuation, such students will be
required to pass a make-up examination in the subject or subjects failed or to satis-
factorily repeat the course or courses failed in a summer session of an approved college
of medicine. The highest final grade allowed for a course passed on re-examination
or repetition shall be C. Students not permitted by vote of the faculty to continue with
their class are automatically dismissed from the College of Medicine. A student dis-
Regulations for College of Medicine Students

missed by vote of the Faculty of the College of Medicine may petition the Faculty to be readmitted to a subsequent class. Such readmission may be granted by vote of the Faculty of the College of Medicine and the conditions of such readmission will be defined on an individual basis.

j. The Faculty may dismiss at any time a student whom they consider to be academically or otherwise unfit for a career in medicine.

k. No student of the College of Medicine, assigned to extramural duty, will absent himself from such assignment except with the Dean’s permission.

l. Special rules affecting each class.

1. Basic Science Core.

Students will not be permitted to advance from the Basic Science Core to the Clinical Science Core until they have passed all work of the Basic Science Core and their advancement is approved by vote of the faculty.

2. Clinical Science Core.

At the completion of the Clinical Science Core 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. During the Clinical Science Core students are advised, but not required, to take Part I Examinations of the National Board of Medical Examiners. Students will not be allowed to advance to the Major Program until they have satisfactorily completed all of the work of the Clinical Science Core and their advancement is approved by vote of the faculty.

3. Major Program.

Students may be required to take a comprehensive examination upon recommendation of a department chairman, unless excused by the Dean of the College of Medicine. They are advised, but not required, to take Part II Examinations of the National Board of Medical Examiners.

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

Candidates for the degree of Doctor of Medicine must have reached the age of twenty-one years and must be 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. Students must have discharged all current indebtedness to the University.

The degree of Doctor of Medicine is granted by the Board of Trustees of The University of Vermont to candidates only upon 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 Dean of the College.

FEES AND EXPENSES

| Application fee | 10.00 |
| Deposit fee     | 100.00 |
| Required of all non-residents admitted to the entering class, and applicable toward tuition |  |
| Tuition         | 600.00 |
| For Vermont residents and bona fide residents of other states having contractual arrangements entitling them to resident tuition rates. |  |
| For non-residents | 2,000.00 |
| Athletic fee    | 30.00 |
| Medical Student Activity fee | 10.00 |
| Locker fee      | 1.00 |
| Locker key deposit (refundable end of year) | 1.00 |
| Books and supplies (estimated) | 250.00 |
| Microscope rental required: 1st year | 40.00 |
| 2nd year, 1st semester | 20.00 |
| Average        | 550.00 |
| Room rent      | 700.00 |
| Board          |  |

A complete supply of medical textbooks, outlines, student supplies and equipment is available at the University Bookstore.
Medical students may, by paying the student activity fee of $15, become entitled to the benefits other University students receive by payment of that fee. This includes free admission to home athletic contests.

In the event of withdrawal from college, refunds are made as follows: During the first week of any semester the full tuition is refunded. Thereafter 20 percent of the tuition is deducted for each week that has elapsed. 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 in attendance at the University.

HOUSING

The University does not have housing available for medical students, but the Housing Office located in the Military Science Building on the University's campus will be pleased to try to assist medical and other students in locating suitable housing.

DINING SERVICE

Any medical students who wish to do so may purchase contracts to take their meals in one of the University dining halls, or may purchase meals singly in the dining halls by paying the guest rate. Current meal contract cost is $235 per semester for 20 meals per week.

Scholarships and Loan Funds

Student loan funds are available through the Health Professions Educational Assistance Act of 1963, under which a scholarship program was established in 1966. Details regarding eligibility are available in the office of the Assistant Dean.

Vermont residents in real need of financial assistance may receive up to $800 in state scholarships. Loan funds are also available. Contact the Assistant Dean's Office of the College of Medicine for further information.

A medical scholarship fund was established in 1962 by Dr. Aldo J. Leani and is available for medical students.

In 1963 The Quarter of a Century Loan Fund for the benefit of medical students was established by the Class of 1938. Contributions will be made annually at the twenty-fifth reunion of each class.
The American Medical Association has established the Medical Education Loan Guarantee Program whereby loans are available to medical students who are residents of the United States.

The Century Club Scholarships of the Alumni Association of The University of Vermont College of Medicine were established in 1965. Awards are made to deserving students who are not residents of Maine, New Hampshire, Vermont, Massachusetts or Rhode Island.

The New York Life Insurance Company Medical Student Scholarship Program was established in 1966. The primary purpose of the program is to assist young men and women of ability who would otherwise have serious financial problems attending a medical school. Each annual scholarship is intended to cover tuition, room, board, fees, books and equipment. Citizens of the United States or Canada are eligible for the scholarship.

The Student American Medical Association Emergency Loan Fund was established in 1966 for medical students.

Certain special and endowed scholarships and funds, including the Wilbur Fund, are available to students of the College of Medicine.

Application forms for scholarship and loan funds may be obtained from the Dean's Office and should be submitted by April 15 prior to September entrance.

STUDENT RESEARCH FELLOWSHIPS

The objective of the Student Research Fellowship Program is to enable interested first- and second-year students to participate in a research project with selected members of the faculty. Two types of experience are available.

Post-sophomore fellowships are offered to students who wish to take a year's leave of absence for advanced study in a basic science that may lead to a Master's degree. The stipend is $2,600 for the year.

The Summer Student Fellowship Program is an elective course of study designed to introduce students to the disciplines of research. It is not restricted to students contemplating a career in medical research nor is the experience itself an apprenticeship to a faculty research endeavor. These fellowships are supported by grants and include a stipend of $75.00 per week. The Summer Student Fellowship Program is coordinated through the Office of the Assistant Dean.
Burlington, looking east to Green Mountain

PHOTO: Burlington Lake Champlain Chamber of Commerce

Flying Scots at Malletts Bay

PHOTO: Richard A. Ryder, M.D., Instructor in Medicine
Program and Objectives

In the fall of 1967, The University of Vermont College of Medicine inaugurated a new and dramatically different curriculum. This new curriculum was the result of five years of careful study and deliberation on the part of the entire faculty. The changes stemmed from recognition of the fact that patterns of medical practice are changing and that medical education must change accordingly.

In the past, virtually all physicians were in general practice. Today, there is still a need for the general practitioner or family physician. In addition, the increasing complexity of modern medicine has required the development of a large number of medical specialties. Physicians must also be trained as investigators and teachers. Some medical schools have attempted to train one type of physician, for example the teacher-investigator, while neglecting the education of the other types of physicians.

The University of Vermont has attempted to develop a curriculum that will be suitable for the training of family physicians, medical specialists, and teacher-investigators. Obviously, the needs of these three groups are different and, therefore, in the new curriculum students will be allowed to pursue several different courses of study after first receiving a general grounding in the basic sciences and medical practice.

GENERAL PLAN OF THE NEW CURRICULUM

The new curriculum consists of three parts: the basic science core, the clinical core, and the major program.

BASIC SCIENCE CORE

The forty-eight weeks of instruction in the basic science core spans the freshman year and fall semester of the sophomore year. During this period students are instructed in the basic sciences that undergird clinical medicine. Emphasis is placed on that body of knowledge common to all types of medical practice, avoiding the minute details relevant only to individual specialties. Comprehensive clinics, seminars in Behavioral Science and the elective faculty tutorial program provide for the first-year medical student clinical contacts, an awareness of social, cultural and psychologic factors affecting health and illness, and insight into the major issues influencing the practice of medicine.
Program and Objectives

CLINICAL SCIENCE CORE

The clinical core extends from January of the sophomore year until December of the junior year. During this twelve-month period each student receives twelve weeks of instruction in medicine, twelve weeks of instruction in surgery, eight weeks in pediatrics, eight weeks in obstetrics and gynecology, and eight weeks in psychiatry. There will be a brief summer vacation. During this year students will work within the hospitals and clinics and instruction will be based on the care of patients.

MAJOR PROGRAM

The major program will extend from January of the junior year of medical school until graduation in May of the following year. During this period each student will pursue a course of study which is tailored to his individual interests and objectives. For example, students interested in family practice will pursue one course of study while students interested in surgery or a surgical specialty will pursue another. The senior major program will commence with a return to the basic sciences which are related to the student's area of interest. This return will constitute both a review and an extension of the material covered in the basic science core. Following this basic science study, students will take blocks of clinical work related to their interests. The basic science work will consist of approximately one-quarter and the clinical work approximately three-quarters of the major program.

The major program is not designed to supplant or duplicate any portion of residency training but is designed rather to prepare students more adequately for subsequent training for family practice, a medical specialty, or teaching and research. In this last regard the faculty is considering the option of allowing students to spend the entire period of time in a basic science department. The final details for the major program are currently under active development.
GRADUATE MEDICAL EDUCATION

Reflecting the relationship between the Medical Center Hospital of Vermont and the University, the fifteen Chiefs of Service who direct the graduate medical education programs at the Medical Center Hospital are the Department and Division Chairmen of the corresponding specialties at the College of Medicine. These chairmen, with representatives from the Dean’s Office of the College of Medicine, and administrative offices from the Medical Center Hospital and University of Vermont constitute the Graduate Medical Education Committee, which oversees graduate medical education at the Medical Center Hospital.

The University of Vermont College of Medicine and the Medical Center Hospital of Vermont offer internship programs in Medicine, Pathology, Pediatrics, and Surgery. Each is the responsibility of the appropriate department chairman; each has the flexibility to complement the varying undergraduate backgrounds of its candidates; each is integrated with its corresponding residency program.

Residency programs are offered in Anesthesiology, Internal Medicine, Neurological Surgery, Neurology, Obstetrics and Gynecology, Orthopedic Surgery, Otolaryngology, Pathology, Pediatrics, Psychiatry, Radiology, Rehabilitation Medicine, Surgery, Thoracic and Cardiac Surgery, and Urology.

RESEARCH

The primary responsibility of the College of Medicine is the teaching of well-qualified men and women the science and art of medicine. This teaching cannot go on, however, isolated from the progress being made in expanding medical knowledge, techniques, equipment. Thus many faculty members of the College of Medicine, often working with faculty or other colleges of the University, are engaged in a wide-ranging number of research projects supported by private and federal grants.
# BASIC SCIENCE CORE PROGRAM — Class of 1973

## FIRST PERIOD HOUR PLAN — Fall, 1969—14 weeks

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* Through Nov. 14; Final, Nov. 19

SECOND PERIOD HOUR PLAN — Winter, 1969–70 — 10 weeks

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* Comprehensive Clinics — Jan. 15, Feb. 12, Mar. 12
THIRD PERIOD HOUR PLAN—Spring, 1970—10 weeks

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FOURTH PERIOD HOUR PLAN—Fall, 1970—14 weeks

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<td>INTRODUCTION TO CLINICAL DISCIPLINES</td>
<td>PSYCHOPATHOLOGY</td>
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*Alternate weeks
In 1968 the third phase of a 12-million dollar expansion program was dedicated, completing a decade of planning and construction accomplished through alumni support, private philanthropy and federal funds. Thus for the first time the teaching and research activities of the College of Medicine have been brought together under one roof.

First to be completed in this ambitious program was the Medical Alumni Building. Dedicated in 1959, this structure was named to honor the loyalty of the medical alumni whose vision and support provided the impetus for the building program.

The Medical Alumni Building is linked to the Given Medical Building by the two-storied Charles A. Dana Medical Library. This air-conditioned facility provides eight times the area of the old library, more than triples the book capacity and contains carrels for individual study, as well as comfortable and spacious reading rooms. The Library is open seven days a week until 1:00 a.m.

Largest of the three buildings is the Given Medical Building. Its 236,000 square feet contain the majority of the teaching and research space for the College of Medicine. This unit also contains the 280-seat Carpenter Auditorium, student lounge, administrative offices and cafeteria.

HOSPITAL
THE MEDICAL CENTER HOSPITAL OF VERMONT, INC.
For a medical school, the teaching hospital is the keystone that supports the clinical education of the medical student and graduate physician alike. Here the opportunity
exists to observe and participate in the care of the sick under the mentorship of those who exemplify the highest skills in the science and art of medicine.

As 1967 began, the two teaching hospitals of the University of Vermont College of Medicine, the DeGoesbriand Memorial and the Mary Fletcher, became legally merged to form the Medical Center Hospital of Vermont. This consolidation brought into existence in Burlington one of the largest and most comprehensive general hospitals in New England.

The role of the Medical Center Hospital is unique in the northern New England region. Not only is it the sole teaching hospital of the University of Vermont College of Medicine and a referral center for upstate New York, northern Vermont and New Hampshire, but it is also the major community hospital for the 80,000 inhabitants of the Greater Burlington Area. A balance exists, therefore, between patients with complicated and rare diseases and those with diseases that are prevalent in any community; a balance that provides every intern and resident at the Medical Center Hospital with medical experiences in breadth as well as depth.

Each year more than 20,000 patients are admitted, over 25,000 outpatient visits made, and nearly 40,000 patients are treated in the emergency rooms of the Medical Center Hospital. Expansion of facilities in 1968 increased the bed capacity to 775; growth that has been matched by expanding capabilities in all medical services and in clinical research. All of the two hundred physicians on the attending staff hold faculty appointments at the University of Vermont College of Medicine.

Besides medical teaching, educational programs are conducted in nursing, x-ray
Teaching Facilities

technique, laboratory technology, social service, hospital administration and physical therapy. Special facilities are available such as a cinefluoroscopy unit in Radiology, a cardiopulmonary laboratory performing cardiac catheterizations as well as routine heart and lung studies, a radio-isotope laboratory, and deep therapy treatment by means of cobalt and linear generator. Research is an important part of the hospital program, carried on both in conjunction with the College of Medicine and by means of private grants made directly to the Hospital.

THE VERMONT REHABILITATION CENTER. The Vermont Rehabilitation Center is a 20-bed rehabilitation center operated by the State of Vermont through a Governing Committee which is appointed by the Governor of the State. The Rehabilitation Center is affiliated with the University of Vermont College of Medicine and is one of the teaching units of the College.

The purpose of the State Rehabilitation Center is to provide broad and complete rehabilitation services for all types of disability; to provide Center-based services for the disabled in other areas of the State, and to provide in-service and on-the-job training programs for personnel in the health professions who are concerned with the evaluation and diagnosis of disability.

Three physiatrists and the faculty of the College of Medicine extend their activities from the Center to other Units of the Hospital. Medical care is provided by the internal medicine service. Departments which make up the Center complex are: rehabilitation nursing, physical therapy, occupational therapy, social service, psychology, and work evaluation.
South side of new College of Medicine building, to be completed this year.

Lawn break on University of Vermont campus; Voley Engineering Hall at left, Mary Fletcher unit of Medical Center Hospital of Vermont in background.
THE DEPARTMENTS IN THE COLLEGE OF MEDICINE
The Department of Anatomy

Chairman: William J. Young, II, Ph.D., Thayer Professor of Anatomy. Professors Dunhue, Newhall (Emeritus), Stultz and Young; Associate Professors Ring (Radiologic Anatomy) and Wells; Assistant Professors Freedman and Emma F. Wennberg; Demonstrator Boushey.

First-year courses for medical students are given in gross anatomy, histology (including embryology), neuroscience and genetics.

BASIC SCIENCE CORE

GROSS ANATOMY. The core course in Gross Anatomy is designed to give the student a grasp of the fundamental principles of organization of the human body, together with the relevant, selected, detail. To accomplish this, a fairly detailed study is made of the upper limb, abdomen and thorax, a moderate coverage is accomplished for the head and neck, with a less detailed study of the back and lower limb. In addition to dissection, visualization of the parts is aided by prosections, skeletal material, cross sections, models, charts, slides and selected lectures in radiological anatomy. Two hours of lecture and ten hours of laboratory weekly, first semester.

Elective courses (see Major Program) for the senior year are planned to include more extensive dissection and study of regions of particular interest to the individuals concerned. Courses projected include (1) The Head and Neck, (2) The Back and Limbs and (3) The Thoracic and Abdominal Viscera. Other specialized courses covering selected regions, parts, or organs may be given as the need arises.

HISTOLOGY. The aim of the course in histology is to help the student acquire useful and meaningful concepts of cell and tissue morphology, ontogeny and differentiation, and the structural organization of selected organs; an appreciation of structure as the locus of function; and an introduction to the methodology of histologic examination of tissues. Histochemistry and electron microscopy are emphasized when they illuminate structural and functional concepts. Six hours of lecture and laboratory each week during the first trimester.

NEUROSCIENCE. The core course in neuroscience will consist of ninety-eight hours of instruction in the third trimester of the first year. The course outlines morphological and physiological features of the neuron and the central nervous system.

The course is offered in conjunction with neurophysiology.

The functional significance of structure is emphasized throughout, in order to prepare
The Department of Anatomy

the student for intelligent diagnosis and localization of neural disturbances in the clinical sciences.

GENETICS. The principles of genetic analysis, and of gene and chromosome structure, function and transmission are examined in twenty lectures in the second trimester. The consequences of altered gene function are illustrated in appropriate clinical examples. Drs. W. J. Young; R. J. McKay and W. E. Hodgkin (Pediatrics); and D. S. Newcombe (Medicine).

MAJOR PROGRAM

The Department of Anatomy, in cooperation with interested clinical departments, will offer, in addition to Graduate College courses, advanced and revision opportunities in pertinent aspects of neuroanatomy, surgical anatomy, and histology.

GRADUATE COLLEGE COURSES

Work in several branches of Anatomy leading to credit for a Master of Science degree can be arranged.

PREREQUISITE — Permission of the Department Chairman.

301 GROSS ANATOMY. Study of the gross structure of the human body by means of general dissection, cross sections and special dissections. Lectures and laboratory, 150 hours. Seven credit hours.

311 MEDICAL HISTOLOGY. The microscopic study of cells, tissues and organs using routine techniques. Lectures and laboratory, 84 hours. Three credit hours.

322 NEUROSCIENCE. A correlated presentation of the neuroanatomy and neurophysiology of the mammalian central nervous system. The course will consist of lectures, demonstrations, and laboratory. The laboratory consists of both microscopic examination of the nervous system and gross dissection of the human brain. Clinical presentation of patients with neurological deficits are demonstrated when appropriate. To be given jointly by the Departments of Physiology and Anatomy. 4 credit hours.

331 SURFACE AND RADIOLOGICAL ANATOMY. This is a course in Living Anatomy in which all available landmarks are studied and utilized in the placement of internal structures. A complete series of radiological plates is used to correlate radiological landmarks with the positions of deep structures. Prerequisite: 301. Lectures and laboratory. Two credit hours.
14 SPECIAL DISSECTIONS IN GROSS ANATOMY. Dissections of particular regions of the human body, utilizing either adult or fetal material or investigative work designed to advance knowledge of some special structure or relationship. Prerequisite: 301. Laboratory, special readings and discussions. Hours and credit as arranged.

31 SPECIAL TECHNIQUES IN HISTOLOGY. Specific work as agreed upon by the instructors and the graduate student. A study of selected cells, tissues or organs by means of special techniques. Prerequisite: 311. Credit as arranged.

30 SPECIAL DEVELOPMENTS IN EMBRYOLOGY. Specific work as agreed upon by student and instructor. The study of some particular embryological problem utilizing special techniques, with directed reading. Prerequisite: Undergraduate course in Comparative Embryology (such as Zoology 111 at Vermont) and in particular cases, in Experimental Embryology (as Zoology course 222). Hours and credit as arranged.

SEMINARS IN ANATOMY 381 Gross Anatomy; 383 Histology; 385 Embryology; 387 Neuroanatomy.

Attendance at departmental or sectional seminars. Designed to review the more recent literature and findings in one or another of the various branches of Anatomy. Prerequisite: Graduate standing. Hours and credit as arranged.

THESIS RESEARCH IN ANATOMY 391 Gross Anatomy; 393 Histology; 395 Embryology.

Investigation of a research topic under the direction of an assigned staff member, designed to culminate in an acceptable Master's thesis. Credit as arranged.
The Department of Biochemistry

Chairman: Donald B. Melville, Ph.D. Professor Melville; Associate Professors Gjessing, Lamden and Schein; Associate Professor (Clinical) E. A. H. Sims; Assistant Professors Meyer, Thanassi and Woodworth; Visiting Assistant Professor Tan; Instructor Ishikawa; Instructor (Clinical) Kunin.

The primary objective of the teaching program is to impart a knowledge of fundamental biochemistry which will permit an understanding of present applications and future developments in relation to medicine. In order to provide the biochemical information needed by other basic sciences, biochemistry is offered at the beginning of the first year. Emphasis is placed on fundamental biochemical principles, and applications to medicine are introduced whenever feasible.

Members of the Department are also available for participation in other courses in the medical curriculum when the subject matter is related to biochemistry.

BASIC SCIENCE CORE

MEDICAL BIOCHEMISTRY. Lectures, conferences, and assigned reading in biochemistry, particularly as it relates to medicine. The first part of the course stresses the area of molecular biochemistry: chemistry, structure, and metabolism of proteins, amino acids, carbohydrates, lipids, and nucleic acids, and the properties and functions of enzymes. The second part is concerned with the biochemistry of the whole organism, with special reference to man: respiration, hemoglobin, iron metabolism, and plasma proteins; acid-base balance and mineral metabolism; vitamins; hormones and control mechanisms. The laboratory work is designed to demonstrate important principles and to illustrate methods and techniques of modern biochemistry.

GRADUATE COLLEGE COURSES

Opportunities exist for additional training in both the theoretical and practical aspects of biochemistry. Graduate courses offered by the Department as part of its Ph.D. program are available to qualified medical students as part of their elective program. Participation in the research activities of the Department is possible as an elective and also during the summer. Subject to the approval of the Department and to the regulations of the Graduate College, it is possible for qualified students to apply credit obtained in graduate courses and research toward an M.S. degree in biochemistry.

PREREQUISITE — Permission of the Department Chairman.

301-302 BIOCHEMISTRY. Lectures, conferences, and assigned reading in the areas of molecular biochemistry and biochemistry of the whole organism, with special reference to man. Topics include the chemistry, structure, metabolism and function
of proteins, amino acids, carbohydrates, lipids, and nucleic acids; enzymes and bioenergetics; respiration, hemoglobin, plasma proteins, and iron metabolism; acid-base balance, water balance, and mineral metabolism; vitamins; hormones and control mechanisms. Four credit hours per semester.

303-304 BIOCHEMISTRY LABORATORY. Experimental work designed to demonstrate important principles and to illustrate methods and techniques of modern biochemistry. Three credit hours per semester.

311, 312 BIOCHEMICAL PREPARATIONS. Isolation, synthesis, and characterization of compounds of biochemical interest. Two credit hours per semester.

320 GENERAL ENZYMEOLOGY. A general consideration of enzyme nomenclature, purification, assay, introductory kinetics, mechanisms, cofactors, active sites, and the relationship of enzyme structure to the biological control of activity. Two credit hours.

321 ENZYME KINETICS AND MECHANISMS. Topics include kinetics, specificity, inhibitors, enzyme-substrate interactions, and their relation to enzyme structure. Two credit hours.

331 NUCLEIC ACIDS. The structure, metabolism, and function of ribonucleic acids and deoxyribonucleic acids. Two credit hours.

340 ORGANIC BIOCHEMISTRY. Organic reaction mechanisms as related to substances of biochemical interest, with emphasis on catalytic mechanisms. Two credit hours.

371 PHYSICAL BIOCHEMISTRY. Protein interaction solubility and fractionation, electrophoresis, sedimentation, phase rule study, diffusion, viscosity, spectrophotometry, and related subjects. Two credit hours.

381 through 389 SEMINAR. Discussions of recent developments and current literature in the various fields of biochemistry. One hour per week.

391 through 393 MASTER'S THESIS RESEARCH. Investigation of a research topic under the direction of a staff member, culminating in an acceptable Master's thesis. Credit as arranged.

491 through 493 DOCTORAL THESIS RESEARCH. Original research under the direction of a staff member, culminating in an acceptable doctoral dissertation. Credit as arranged.
The Department of Community Medicine

Chairman: Charles S. Houston, M.D. Professors Houston, Matby and Waller; Associate Professors Aiken, F. L. Babbott, F. J. Falck (Speech Pathology), Gibson, Sylwester and Tormey; Assistant Professors Brusis, Hill, J. E. Wennberg and Whorton; Instructors (Clinical) D. H. Brown, Friedman, D. H. Gray, Lantman, Levine, J. C. Twitchell and Walsh.

The Department of Community Medicine offers students information and principles which will help them fulfill their future responsibilities as practitioners. This Department shares with the Department of Medicine a deep concern for improvement of continuing comprehensive care for the whole patient. Toward this end, monthly comprehensive clinics are provided in the first year and a limited preceptorship program is run for fourth-year students. Relevant aspects of medical statistics and community medicine are also included in the first-year curriculum. The Department is deeply involved in regional medical planning, and research activities include the social and economic aspects of health practices, medical statistics and computer use, environmental health problems and infectious disease epidemiology.

BASIC SCIENCE CORE

COMMUNITY MEDICINE. During the spring of the first year an introductory course in Community Medicine is offered. It includes a consideration of social science in medicine, environmental health problems, community health services, and the application of epidemiologic principles and techniques to selected infectious and non-infectious diseases. Lectures, demonstrations and seminars. 40 hours.

MEDICAL STATISTICS. This course provides practical instruction in the principles, logic and techniques of statistics as applied to everyday problems in medicine. It includes a consideration of random sampling, frequency distributions, probability and significance testing, as well as the place of computerized data processing in medical record keeping and research. Lectures, seminars, use of statistics laboratory. 18 hours, first semester.

COMPREHENSIVE CLINICS. At monthly intervals during the first year, comprehensive clinics will be offered. The purpose of these clinics is early introduction of students to the medical application of basic sciences, clinical management of patients and the broader social implications of human disease. These clinics are sponsored by the
Department of Community Medicine, but will include participation by other appropriate departments.

ELECTIVE PROGRAMS. Preceptorships with family practitioners or in community hospitals are offered to senior students on an elective basis. Selected senior students may choose to spend one or more twelve-week periods in Community Medicine, working in: research and action in community health, apprenticeships in rural and urban underprivileged areas, participation at several levels in extended care service, and planning delivery of health and welfare services.

For residents in medicine a tutorial program is offered which includes regular seminars in preventive medicine, community health, and many aspects of family practice.

GRADUATE COLLEGE COURSES

The following elective graduate courses are offered by this Department.

PREREQUISITE—Permission of the instructors.

300 MEDICAL SOCIOLOGY. Advanced seminar. First semester, 3 credit hours.

306, 309 MEDICAL SOCIOLOGY. Individual study. By arrangement, 1–3 credit hours.
The Department of Medical Microbiology

Chairman: Warren R. Stinebring, Ph.D. Professors Johnstone and Stinebring; Associate Professors B. R. Forsyth and C. A. Phillips; Assistant Professors Boraker, Gump, T. J. Moehring, Novotny and Schaeffer; Instructor Absher; Research Associate Joan Moehring.

The Department of Medical Microbiology, through its teaching program for undergraduate medical students and graduate students, and through the research activities of its members, both faculty and departmental medical or graduate students, proposes to provide training in fundamentals of pathogenic microbiology needed by all students (medical or graduate) of parasitism and training in advanced microbiology, needed by medical or graduate students who expect to undertake teaching or research in this field. Areas of special teaching competence or research interest include: host-parasite relationships at the organismic, cellular, and molecular levels, microbial genetics, immunology and immunogenetics, diagnostic bacteriology and virology, and cell, organ or tissue culture. Medical students, with permission, are encouraged to participate in any of these activities during free or elective time.

BASIC SCIENCE CORE

MEDICAL MICROBIOLOGY. The primary objective of this course is to present to students of medicine those aspects of microbiology which they as physicians will find of value. Mechanisms of pathogenesis, mechanisms of host resistance, specific agents causing diseases of viral, bacterial, fungal, and parasitic origin, are discussed with emphasis on the ecologic rather than taxonomic approach. Basic aspects of infection and resistance, development, autoimmune diseases and transplantation immunity, viral oncogenesis, "slow" virus infections are topics receiving special emphasis. Three laboratory sections, one in medical bacteriology, one in virology and molecular microbiology, and one in immunology will be held concomitantly and one third of the students will rotate through each laboratory at a time. This enables the laboratories to be staffed with individuals particularly competent in these special areas. Emphasis is on presentation of material which augments lecture material or illustrates how the laboratory can be an aid to the student of microbial disease rather than in developing the laboratory skills of the students.

GRADUATE COLLEGE COURSES

The Department offers programs of study leading to the Master of Science and Doctor of Philosophy degrees. Medical students may also participate in these programs.
PREQUISITE—Permission of the Department Chairman.

THE MAMMALIAN CELL AS A MICROORGANISM. Discussion and laboratory work in problems of cell immortality, transformation, dedifferentiation, synchronization, cell-macromolecule interaction. Laboratory provides foundation in cell culture techniques. Five credit hours.

MEDICAL MICROBIOLOGY. Fundamentals of pathogenic microbiology with emphasis on mechanisms of disease production and mechanisms of resistance to infections. The ecologic rather than taxonomic approach is stressed. Four credit hours.

SPECIAL PROBLEMS IN MEDICAL MICROBIOLOGY. Supervised investigations in pathogenic microbiology. Credit as arranged.

GENETICS OF MICROORGANISMS. Studies of mutation, genetic information transfer, fine structure of the gene, cytoplasmic inheritance, and lysogeny in fungi, bacteria, and viruses. Three credit hours.

IMMUNOLOGY. Discussion and demonstrations of theories of antibody formation, antigens, immunoglobulins, cellular immunity and hypersensitivity, problems of transplantation. Four credit hours.

SEMinar. Current problems in medical microbiology. One credit hour.

MASTER'S THESIS RESEARCH. Supervised research leading to acceptable thesis. Credit as arranged.

DOCTORAL THESIS RESEARCH. Original research leading to acceptable doctoral dissertation. Credit as arranged.
The Department of Medicine


The Department of Medicine has as its three-fold mission the investigation of human disease, scholarly instruction in the disciplines of clinical medicine and the comprehensive care of patients.

Members of the Department have had advanced training in the broad field of internal medicine, and most have additional research or special clinical skills that provide balance and strength throughout the areas of departmental responsibility in hospitals, clinics and laboratories.

As attending or consulting staff physicians at the two affiliated hospitals, members of the Department of Medicine provide daily patient care and bedside instruction and supervision for students, house staff, clinical trainees and other physicians. As clinical and laboratory investigators, they bring refined and quantitative methods to bear on problems of human disease, often working as units or teams in laboratory areas within the Medical School complex. Included within the Department of Medicine is the Division of Dermatology.

The many formal and informal departmental conferences, ranging from weekly Medical Grand Rounds to daily bedside rounds, are attended by students, house staff, senior staff and visiting physicians.
INTRODUCTION TO THE CLINICAL DISCIPLINES. This course is intended to be a bridge between the basic science core curriculum and the bedside. The primary purpose is to teach the student to elicit a history and perform a physical examination with adequacy and sophistication. Equal in importance is the emphasis on correlation of anatomic, physiologic and biochemical data with clinical findings. It is desired that the student be able to use in a thoughtful way the simple laboratory investigations which are appropriate and required. There is no specific intent in this course to cover pathologic detail but rather to emphasize disordered mechanisms and their elicitation by bedside and laboratory methods. Emphasis is to be placed on practical teaching and supervision at the bedside with the use of illustrative cases. Correlated interdisciplinary seminar teaching will be emphasized also.

CLINICAL SCIENCE CORE

CLINICAL CLERKSHIP IN MEDICINE. This consists of a 12-week period designed to provide maximum clinical experience in the hospital setting, with primary emphasis on ward work. The student is now able to apply the principles and methods taught in the core curriculum. The purpose of this clerkship is to involve the student directly in the day-to-day work of a medical unit in conjunction with careful and continuing supervision by attending physicians and house staff. He is encouraged to visualize the patient as not only a pathologic process and disorder of function but also as a social, environmental and psychological entity. He will attend weekly interdisciplinary conferences on common problems in medicine. He will also be encouraged to attend the regular subspecialty conferences and Grand Rounds.

MAJOR PROGRAM

MAJOR PROGRAM IN MEDICINE. The intent of the Major Program is to give the student an opportunity to obtain additional experience in the area of his intended career in medicine, whether this be a primary family physician, a practicing internist or an academic physician. The structure of the major period will be designed by the student and his faculty advisers. The first portion will consist of a review of applied basic sciences and seminar teaching on the history, ethics and philosophy of medicine. The
remainder will consist of appropriate elective courses. These will be offered in general medicine, cardiology, respiratory disease, rheumatology, dermatology and allergy, hematology, neurology, metabolism, endocrinology, renal diseases, infectious diseases, oncology, gastroenterology and research methodology. The student will be encouraged to take part in a research project in any relevant field and write a thesis on the topic of his choice. In conjunction with the elective periods there will be considerable outpatient experience both in the general and subspecialty clinics.

Division of Dermatology

*Acting Chairman:* Arthur H. Flower, Jr., M.D. Associate Professor (Clinical) Flower; Assistant Professors Epinette and Madison.

During the Introduction to the Clinical Disciplines course, the student becomes familiar with the methods of history taking and special studies which are unique to this medical discipline, usually by means of case presentations that demonstrate typical primary, secondary and consecutive lesions of the skin.

Case presentations, informal student-instructor conferences and case-centered consultations serve to demonstrate the scientific and bedside aspects of dermatology to the student during his clerkship.

The senior student may elect periods of ambulatory dermatology experience, evaluating patients with skin diseases and discussing them in detail with the attending dermatologist.
The Department of Neurology

Chairman: Charles M. Poser, M.D. Professors Poser and Schumacher; Associate Professor (Clinical) Martin; Instructors (Clinical) Elwell, Engisch and O'Shea.

The Department of Neurology provides instruction to undergraduate students in diseases of the nervous system and sponsors a graduate residency training program in Neurology at the affiliated hospitals. Interns rotate through the neurological services at both hospitals, resident physicians assist in the instruction of students, and specialty conferences concerned with selected disorders of the nervous system are scheduled weekly. The staff consists of the Chairman, one full-time teacher, four part-time clinical teachers and five resident neurologists. The Department is concerned with primary and consultative patient care, clinical research, teaching at undergraduate and postgraduate levels and participation in clinics and regional hospitals as consultants.

**BASIC SCIENCE CORE**

In the context of the integrated course "Introduction to the Clinical Disciplines," members of the staff provide a brief review of neurophysiology, demonstrate and explain methods of neurological diagnosis, discuss ancillary laboratory techniques, and supervise student performances of bedside neurological examinations.

**CLINICAL SCIENCE CORE**

During the clinical clerkship on Medicine, the student is assigned in rotation patients admitted to the neurological service. Patients with nervous system disease are presented by students at a weekly neurological case presentation conference held for clinical clerks on the floors of either the Mary Fletcher or DeGoesbriand Units of the Medical Center Hospital of Vermont.

**MAJOR PROGRAM**

An elective period of research or clinical work in Neurology is available to senior students. Instruction in Neurology is carried out in the Neurology Outpatient Clinics where small groups of students are assigned, performing complete neurological examinations on new patients. At this time the student records his complete diagnostic formulation and plan of management, his clinical study being closely supervised by members of the staff. Students attend regular weekly joint neurology-neurosurgery and neuropathology conferences, as well as other related specialty conferences when held.
The Department of Obstetrics and Gynecology

Chairman: John Van S. Maeck, M.D.; Associate Chairman: Herbert A. Durfee, Jr., M.D. Professors Maeck and Slavin; Professor (Clinical) Solomon (Endocrinology); Associate Professors Boardman, Durfee, Eastman and Mary J. Gray; Associate Professor (Clinical) Burchell; Assistant Professors Lewis, Meeker, Schwab and W. F. Sims; Assistant Professors (Clinical) Clark, Granai and Russo; Instructors (Clinical) Cannon, R. E. Davis, Romeyn, Taber and W. Thabault.

CLINICAL SCIENCE CORE

The core program in obstetrics and gynecology will be offered during the second and third years. The course consists of 8 weeks of intensive academic and practical experience in the classroom and in the hospital. Emphasis is placed on the fundamentals of female reproduction, the physiology, pathology and therapy of obstetric and gynecologic problems commonly met by physicians in many branches of medicine. In keeping with the philosophy of a core program, the detailed technique of delivery room and operating room procedure will not be stressed.

Those students who show special aptitude and interest may elect to take the Senior Major Program in Obstetrics and Gynecology which will supplement the fundamentals and give adequate added clinical experience. It is deemed important, however, to expose each medical student to the birth process and to ensure an understanding of reproductive physiology and its implications.

Frequent tutorial sessions will supplement the major lecture series and serve to evaluate the progress of each student.

The technique of basic history and physical examination will be taught by the attending staff and each student's work will be individually evaluated.

Subjects of major importance will be given to one half of the class over a span of 24 weeks in the form of a weekly one-hour lecture. This lecture series is repeated twice a year.

At the end of his experience in the core program, it is expected that the student will be completely able to take a history and perform a general obstetric and gynecologic physical examination, to evaluate the normal and abnormal breast and pelvis, to take smears for cytology correctly, and to diagnose pregnancy and understand common obstetric and gynecologic problems.

MAJOR PROGRAM

The Department of Obstetrics and Gynecology is currently developing a major program.
The Department of Ophthalmology and Otolaryngology

Chairman: John C. Cunningham, M.D., Shipman Professor of Ophthalmology.

Division of Ophthalmology

Chairman: John C. Cunningham, M.D. Professor Cunningham; Associate Professor M. C. Twitchell; Assistant Professor (Clinical) Irwin; Instructors (Clinical) Gould and Kleh.

Division of Otolaryngology

Chairman: Rufus C. Morrow, Jr., M.D. Professor Morrow; Associate Professor Virginia T. Falck (Audiology); Assistant Professor Tschopp; Assistant Professors (Clinical) Goldsborough, Heisse, Karmody and Reed; Instructor (Clinical) Falkenberg; Consultant F. J. Falck (Audiology).

CLINICAL SCIENCE CORE

The Divisions of Ophthalmology and of Otolaryngology participate in the course in Introduction to Clinical Disciplines in the second year.

In the third year each student is assigned to clinical work in the Department of Ophthalmology and Otolaryngology, involving outpatient care, hospital rounds and procedures, conferences, intensive individual instruction and assigned reading.

MAJOR PROGRAM

In the Major Program, elective courses will be offered. These courses involve interdisciplinary arrangements with other departments as needed. An elective course may be individualized to the needs of the student, but among the possibilities offered are: Ear, nose and throat problems in general practice; pediatric otolaryngology; otology and audiology in children; basic audiology; head and neck oncology; neuro-otology; broncho-esophagology; radiographic interpretation in the head and neck; eye problems in general practice; pediatric ophthalmology; facial and temporal bone injuries; office practice in ophthalmology; and neuro-ophthalmology.
The Department of Orthopaedic Surgery

Chairman: Franklin T. Hoaglund, M.D. Associate Professors Bell and Hoaglund; Associate Professors (Clinical) Kuhlmann and Rust; Assistant Professors (Clinical) Davis and Simpson; Instructor Molloy.

Orthopaedic Surgery covers a broad field of medicine which is concerned with diseases, conditions, and injuries involving the musculo-skeletal system. The Department of Orthopaedic Surgery has as its prime responsibility the instruction of medical students, house staff, as well as nurses and therapists, in the diagnosis, prevention, and management of problems as related to the musculo-skeletal system. The Department is involved in on-going research programs, both basic and clinical, in the areas of arthritis, traumatic injury, and rehabilitation. All members of the Department are involved in acute and chronic patient care. There is a fully approved orthopaedic residency training program at the Medical Center Hospital of Vermont for six residents in children's and adults' orthopaedics, as well as trauma.

Members of the Orthopaedic Department staff and orthopaedic residents participate in the teaching of medical students in all four years of the curriculum. Members of the staff, including orthopaedic residents, participate in the teaching of anatomy. Lectures are given in physical diagnosis of musculo-skeletal disease and deformity in the Introduction to Clinical Disciplines.

Students are assigned to Orthopaedic Surgery during the Clinical Science Core for both didactic instruction and for the opportunity to examine orthopaedic inpatients and participate in their treatment. Students attend the children's orthopaedic clinic and the general orthopaedic outpatient clinic. Students have regular assignments in the care of patients in the emergency room at both units of the Medical Center Hospital and are encouraged to participate in the operating theater.

Electives are open to interested students during the senior year or the major elective period. At this time there is further opportunity to participate in the care of both inpatient and outpatient orthopaedic patients and to assist as members of the operating team. Limited facilities are available for interested students to pursue both basic and clinical research.
The Department of Pathology and Oncology

Chairman: Robert W. Coon, M.D. Professors Andrews, Coon, Korson, Kusserow and Lugnibuhl; Associate Professors Clemmons, Couch, Craighead, Rice, E. Stark, Helene W. Toolan (Experimental Pathology), and Trainer; Assistant Professors Battles, Duffell, Flory, Harris, Kaye, Picoff, J. W. Smith and Taylor; Instructor Hooper; Instructor (Clinical) German.

The interests and responsibilities of the Pathology faculty include teaching, research, and the practice of both anatomic and clinical pathology in the affiliated teaching hospitals. The diversity of interest and variety of responsibility within the staff is represented by these activities create an ideal atmosphere for the introduction of students and residents to the study of disease in all of its manifestations.

The Department has responsibilities for the instruction of medical students, graduate students, and for residents, fellows, and trainees.

BASIC SCIENCE CORE

The major course in Pathology is presented as a part of the Basic Science Core and is designed to present a concentrated, yet comprehensive view of disease in sufficient depth to prepare the student adequately for subsequent clinical studies. Fundamental principles are emphasized and the structural, functional, and clinical correlations are stressed.

Although the organization of the course involves the traditional division into general and special pathology, the emphasis is considerably modified. Pathophysiological correlations are stressed. The teaching format varies, ranging from formal lectures to small informal discussion groups. A student is encouraged and assisted to develop for himself a pattern of self education. Extensive use is made of clinical case studies, frequently in lieu of “loan set slides.” Extensive use is made of gross material, both fresh and preserved. In addition to the loan slide collection, visual aids are used extensively in the classroom and laboratory.

Instruction in clinical pathology is closely correlated with the work in general and special pathology. Instruction in clinical pathology is designed to acquaint the student with laboratory medicine, including 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 data and the integration of the data with other clinical findings.

CLINICAL SCIENCE CORE

During the Clinical Science Core portion of the curriculum, the Department of Pathology cooperates with other clinical departments in providing instruction. This includes
The Department of Pathology and Oncology

collaborating on and presenting departmental and specialty conferences, clinical pathological conferences, consultation on clinical problems, and supervision of laboratory tests performed by medical students on patients assigned for their study.

MAJOR PROGRAM

The Major Program for the Department of Pathology is currently under development. We anticipate having appropriate courses in pathology for both "majors" in pathology and those in other clinical departments. Some courses will primarily provide in-depth instruction in areas of particular interest to various clinical groups. On the other hand, for those students particularly interested in pathology there will be an opportunity for greater exposure to the field while at the same time continuing their in-breadth education as physicians.

GRADUATE COLLEGE COURSES

PREREQUISITE — Permission of the Department Chairman.

201 HISTOCHEMISTRY. A survey of techniques used for chemical identification of cellular and tissue components, including discussion of underlying theories. Prerequisite: an acceptable course in cell structure (e.g., Anatomy 311, Botany 256); Chemistry 131-132; permission of the department. A course in biochemistry is strongly recommended. Credit as arranged.

301-302 GENERAL AND SPECIAL PATHOLOGY. This is similar to the course for second-year medical students except it does not include the course work in clinical pathology. It may be taken by graduate students who have proper prerequisite training. Lectures and conferences total for year, 80 hours. Laboratory: total for year, 160 hours. Ten credit hours total.

By special arrangement, properly qualified graduate students may be permitted to enroll for the first portion of the course only with credit hours to be arranged.

310, 311, 312 ADVANCED PATHOLOGY. Supervised practical experience in handling, processing, and diagnosis of pathological materials. Participation in departmental seminars and conferences. Prerequisite: 301-302; permission of department. Credit as arranged.

391, 392, 393, 394 THESIS RESEARCH. Investigation of a research topic under the direction of a staff member, culminating in an acceptable Master's thesis. Prerequisite: Courses 301 and 302. Credit as arranged.
The Department of Pediatrics

Chairman: R. James McKay, M.D. Professors Lucey and McKay; Professor (Clinical) Sussman; Assistant Professors Antony and Hodgkin; Assistant Professors (Clinical) Gentry, McKe, *Dorothy J. Morrow, Paxson and Stackpole; Instructors Murray and Carol F. Phillips; Instructors (Clinical) Bates, Elizabeth Clark, Narkiewicz and Swartz; Clinical Associate Friedman.

The Department seeks through its required course to give each student a grounding in pediatrics which will enable him or her to handle children successfully in whatever branch of medicine is eventually practiced by the student. Particular emphasis is put on doctor-child-parent relationships. Emphasis is also placed on giving the student some perspective on the practical aspects of pediatrics through exposure to the teaching of an active practitioner during one of the two months of clinical clerkship.

The Department also takes the responsibility for pediatric training of interns and residents in the Medical Center Hospital of Vermont in Burlington.

CLINICAL SCIENCE CORE

CLINICAL PEDIATRICS. A two-month clinical clerkship with daily teaching rounds on the pediatric floors of the Medical Center Hospital of Vermont. Each student participates actively in the care of inpatients, spends under supervision one afternoon a week seeing patients in an outpatient clinic, one afternoon a week seeing patients in a child-health clinic, and one day at Brandon Training School.

MAJOR PROGRAM

MAJOR PROGRAM IN PEDIATRICS. Sixteen months during which, in order to provide continuity, the student will participate on a monthly or bi-monthly basis in each of the following clinics: allergy, birth defects, child development, child health, congenital heart, pediatric diagnostic, pediatric follow-up (chronic disease), pediatric psychiatry, school health, and speech and hearing. There will also be monthly basic science seminars to stimulate in-depth study and discussion of the basic science aspects of particular pediatric problems brought up by the clinical experience of the student. The time not devoted to these continuing experiences will be distributed as follows: 1 month, clinical microbiology; 4 months, inpatient clinical clerkship; 2 months, clinical clerkship on nursery service; 1 month, preceptorship with a pediatric practitioner; 8 months, elective or electives (after discussion with and approval of the Chairman of the Department of Pediatrics).

*On leave.
ELECTIVE COURSES. (For students not taking pediatric major).

OUTPATIENT PEDIATRICS. Clinical clerkship in outpatient facilities of Medical Center Hospital of Vermont or other approved pediatric departments. Attendance at daily inpatient rounds also, with assignment to detailed work-up of cases of particular interest. Students work closely with senior resident. One or two months.

HOSPITAL PEDIATRICS. Clinical clerkship in inpatient facilities of the Medical Center Hospital of Vermont or other approved pediatric department. One or two months.

NEONATAL PEDIATRICS. Clinical clerkship on nursery service of Medical Center Hospital of Vermont or other approved pediatric department. Two months.

RESEARCH PEDIATRICS. Supervised work in an approved pediatric research laboratory at the University of Vermont or other medical center, or the carrying out under supervision of an approved specific clinical research project. One to four months.

PRACTICE OF PEDIATRICS. Assignment to work with an approved pediatrician in his practice. One month.
The Department of Pharmacology

Chairman: Durwood J. Smith, M.D. Professors Jaffe, Macmillan, Maxwell (Visiting) and D. J. Smith; Associate Professor Gans; Assistant Professors Doremus (Director of Animal Services), McCormack, Reit and D. S. Robinson; Instructor Wallace (Clinical Pharmacology).

BASIC SCIENCE CORE

The pharmacology course for medical students is taught in correlation with the course sequence of the Department of Pathology during the first period of the second year. The course considers a study of the basic mechanism of action of therapeutic agents, their pharmacological actions, their fate and toxicology. The course consists of lectures, medical motion picture teaching films, discussion groups, demonstrations, and laboratory exercises. Demonstrations and laboratory experiments in pharmacodynamics are designed to emphasize accurate observation, careful recording, and biological variations in drug action.

GRADUATE COLLEGE COURSES

The Department of Pharmacology offers graduate programs leading either to the degree of Master of Science or Doctor of Philosophy. Facilities are available for properly qualified students and others for research either independently or in cooperation with members of the staff.

PREREQUISITE — Permission of the Department Chairman.

301 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, 70 hours; laboratory, 56 hours. Eight credit hours.

372, 374, 376 SPECIAL TOPICS IN PHARMACOLOGY. Topics of current interest and importance in pharmacology are considered in depth through presentations by graduate students and staff. During each year a specific theme of study will be developed. Prerequisite: Permission of the Department. One credit hour per semester.

381, 383 SEMINAR. General topics are presented by students, staff members and visiting scientists. Organized surveys of selected fields may be presented upon request. One x 1 hour per week. Offered both first and second semesters. Open to all properly qualified graduate students. One credit hour per semester.

391 through 399 MASTER'S THESIS RESEARCH. Investigation of research topic under the direction of an assigned staff member, culminating in an acceptable Master's thesis. Credit as arranged.

401 through 499 DOCTORAL THESIS RESEARCH. Original research under the direction of an assigned staff member, culminating in an acceptable doctoral dissertation. Credit as arranged.
The Department of Physiology and Biophysics

Chairman: Norman R. Alpert, Ph.D. Professor Alpert; Associate Professor Chambers; Assistant Professors McCrorey, Parsons and Webb; Instructor (Clinical) Hamrell; Research Associate Lucchina.

BASIC SCIENCE CORE

MEDICAL PHYSIOLOGY AND BIOPHYSICS. Physiology and Biophysics is taught as a science to the first-year medical students, in the second trimester, with emphasis being placed on the broad physical, chemical and biological principles underlying the function of the main organ, tissue and subcellular systems. Special stress is placed on those phases which are the scientific basis of clinical medicine and research. The core course consisting of 110 hours is made up of lectures, demonstrations, conferences and laboratories.

NEUROSCIENCE. The core course in neuroscience will consist of 98 hours of instruction in the third trimester of the first year. The course outlines morphological and physiological features of the neuron and the central nervous system. The course is taught in conjunction with neuroanatomy. The functional significance of structure is emphasized throughout, in order to prepare the student for intelligent diagnosis and localization of neural disturbances in the clinical neurological sciences.

MAJOR PROGRAM

There is a vigorous graduate and research program in the Department. Medical students may participate in the advanced seminar type course work, as well as in the various research projects.

GRADUATE COLLEGE COURSES

Under special circumstances medical students may take advantage of the opportunity for graduate study leading to a Master of Science or a Doctor of Philosophy degree. For further details on the graduate program see the catalogue of the Graduate College or write for the Department's brochure. A number of fellowships are available for summer research or graduate study.

PREREQUISITE — Permission of the Instructor of course.

301 PHYSIOLOGY AND BIOPHYSICS. This course is taught as a science to the first-year graduate students, in the second trimester, with emphasis being placed on the broad physical, chemical and biological principles underlying the function of the main
organ, tissue and subcellular systems. Special stress is placed on those phases which are
the scientific basis of clinical medicine and research. The core course consisting of
110 hours is made up of lectures, demonstrations, conferences and laboratories.
Special Problem Seminar 303 is associated with this course and is given concurrently.

302 NEUROSCIENCE. A correlated presentation of the neuroanatomy and
neurophysiology of mammalian CNS. The course will consist of lectures, demon­
strations, and laboratory. The laboratory work consists of both microscopic examina­
tion of the nervous system and gross dissection of the human brain. Clinical presenta­
tion of patients with neurological deficits are demonstrated when appropriate. To be
given jointly by the Departments of Physiology and Anatomy. 4 credit hours.

303 through 306 SPECIAL PROBLEMS IN PHYSIOLOGY. These courses,
open to qualified students by arrangement with the staff, will cover various special
problems by means of lectures, seminars, and directed reading. Hours and credit as
arranged.

308 BIOMETRICS AND APPLIED STATISTICS. This course is designed as
an introduction to the rational use and evaluation of statistical methods in the planning
of experiments and the interpretation of biological data. Topics include measures of
central tendency and dispersion; “t”-test and analysis of variance; correlation and
regression; chi-square; non-parametric methods; experimental design. The course
includes a biometrics laboratory. Course limited to ten students. Prerequisite: Math.
110 or equivalent. Five hours credit.

Dr. McCrorey

309 THE PHYSIOLOGY OF SYNAPTIC AND CONDUCTING MEMBRANES.
The mechanisms of synaptic transmission and nerve and muscle conduction will be
explored, with particular emphasis on molecular structure and function. Prerequisites:

Dr. Webb

310 THE MOLECULAR BASIS OF BIOLOGICAL MOTILITY. This is an
advanced course dealing with the molecular basis of muscle contraction and biological
movement. The problems of energetics, mechanics and chemistry of biological motility
will be considered in detail. Special emphasis will be given to the contraction of skeletal
muscle. There will be some discussion of pathology, pharmacology and the comparative
physiology of muscle related to the areas designated above. Lectures and conferences.
Three hours, one semester. Prerequisites: Physiology 301, Biochemistry 301–302.
Alternate years. 1968–69.

Dr. Alpert
311 SPECIAL SENSE RECEPTORS. Function of receptor cells from the standpoint of stimulation and response. Specific sense receptors will be considered. Assigned reading in the research literature with seminar discussions. Prerequisite: Physiology 301. Three hours. Alternate years 1967-68. Dr. A. Chambers

314 THE PHYSIOLOGY AND BIOPHYSICS OF THE CIRCULATION. This course deals with the principles underlying the regulation of circulation. Special emphasis will be given to a consideration of the physiological adjustments to exercise. The course will consist of reading and discussing articles, monographs and reviews. It will be a seminar type course limited to ten students. Three hours. Alternate years. Prerequisite: Physiology 301. 1967-68. Drs. Tabakin, Hanson and Levy

315 THE PHYSIOLOGY AND PHARMACOLOGY OF SYNAPSES. A comparative study of synaptic connections in invertebrate and vertebrate species will be undertaken, with emphasis on their ultrastructure, pharmacology, and physiology. Prerequisites: Physiology 301, Biochemistry 311-312, permission of the instructor. Three hours, one semester. Alternate years.1968-69. Dr. Parsons

381 through 389 SEMINAR. These courses are designed to review recent developments and literature. Topics are presented by students, staff, and by visiting scientists. Hours and credit as arranged.

391 through 394 THESIS RESEARCH. Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Master's thesis. Credit as arranged.

491 through 499 THESIS RESEARCH. Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Doctor's thesis. Credit as arranged.
The Department of Psychiatry

Acting Chairman: Hans R. Huessy, M.D. Associate Professors Agras, Huessy, Kendall, and W. A. Woodruff; Associate Professors (Clinical) Brooks, Cohen, Hyde and Laqueur; Assistant Professors McAree, Mitchell (Anthropology), Nies, Olivera, Ravaris and Weaver (Psychology); Assistant Professors (Clinical) Agnew, Deane (Sociology), Leitenberg (Psychology), Leopold, McGinniss and J. M. Toolan; Instructors (Clinical) Covey, Forsberg, Elizabeth H. Forsyth, Marshall, O'Shea, Sharpe, Sommer, J. N. Stark, Stewart, and Treial; Clinical Associate Brewster; Research Associate Lincoln.

While the primary and most obvious responsibility of this Department is the teaching of Psychiatry as a special discipline of Medicine dealing with the diagnosis and treatment of emotional disturbance and mental illness, its task is not confined to this. It also includes the presentation of the behavioral sciences as part of the basic science preparation in the preclinical years and the application of behavioral sciences to disturbed behavior, i.e., Psychopathology. Its teaching also has relevance to medical practice overall. It includes presentation of a body of knowledge concerning human behavior, and techniques for understanding and managing interpersonal relationships, which are utilized by all physicians whatever their field of endeavor.

The staff is composed of 32 members. Some of these practice Psychiatry privately and supervise the Psychiatric Outpatient Clinics. Others specialize in psychiatric problems of children, psychological techniques, psychiatric social service, community psychiatry, and the care of patients in psychiatric hospitals.

A residency program approved for three years of training by the Council on Medical Education of the American Medical Association is carried on by the Department in conjunction with the affiliated hospitals. Residents rotate through the general hospitals and state hospital, and affiliations with other mental health agencies are available in the later years of the residency. In addition to the regular clinical teaching and conferences in the hospitals, an academic program of seminar instruction is carried on within the Department during the academic year.

Fourth- and fifth-year fellowships in Community Psychiatry, Transcultural Psychiatry, Behavior Therapy and Psychopharmacology are available.

BASIC SCIENCE CORE

311-312 BEHAVIORAL SCIENCE. This is a general course in behavioral science and its relation to medicine for freshman medical students. A behavioral science "point of view" is characterized by an interdisciplinary approach to the understanding of human behavior. It focuses on observable behavior and stresses the study of the multiple factors that influence the individual's behavior within his environment. The
behavioral sciences from which data are drawn include anthropology, experimental psychology, social psychology, and sociology. The course is presented in two series of small group seminars. The first examines the setting and practice of medicine; the second examines specific forms of human behavior such as sexuality, pain, aggression, and death.

321–322 PSYCHOPATHOLOGY. This course concerns itself with the understanding of personality problems as they occur in patients suffering from psychical and mental disorders. Emphasis is placed on giving the student a clear understanding of terminology, systems of classification, and the basic concepts of dynamic psychiatry. Examples of the major approaches to the study of disturbed behavior are presented, drawing upon the contributions of clinical, social and biological sciences. Audio-visual aids and case presentations with small group discussions are utilized.

CLINICAL SCIENCE CORE

PSYCHIATRY. This is the principle clinical course in psychiatry and consists of an eight-week block of time. The main assignment is as a clinical clerk on the psychiatric service of the Mary Fletcher or DeGoesbriand Memorial Unit, studying inpatients and outpatients and participating in all regular teaching exercises and conferences. In addition to clinical exercises, students participate in didactic and seminar instruction. Additional assignments offer clinical experience in mental hospitals and visits to other mental health agencies so that the student sees an extended range of patients.

MAJOR PROGRAM

PSYCHIATRY. Detailed plans for the senior major in psychiatry are still in preparation. It is anticipated that this will be chosen by students who intend to pursue a career in psychiatry. The general format will be:

a. A basic science block emphasizing those disciplines which most contribute to the preparation of a psychiatrist, e.g., physiology, biochemistry, neurophysiology, neuroanatomy, behavioral and social sciences, and so forth.

b. Additional clinical assignments on the psychiatric service.

c. Additional assignments on other clinical services, e.g., medicine, pediatrics, neurology.

d. Elective assignments.

PSYCHIATRY AS PART OF OTHER MAJORS. Courses in clinical psychiatry will be offered as part of Senior Majors in other departments.

PSYCHIATRIC ELECTIVES. A range of elective placements will be available and also a variety of opportunities for summer work in either a clinical or a research position.
The Department of Radiology

Chairman: A. Bradley Soule, Jr., M.D. Professors Roth (Electrical Engineering) and Soule; Associate Professors Foley, Janney (Radiologic Physics), Peterson, Ring (Neuroradiology and Radiologic Anatomy), Tampas (Pediatric and Cardiac Radiology) and Van Buskirk; Assistant Professors Guare, Hunziker and Kupic; Instructors Bannister (X-ray Technique), G. S. Brown, Heilman, W. H. Johnston, Mindell and Saxby; Clinical Associate Holm; Tutor Kasenter (Radiologic Physics); Lecturer Harwood (Radiologic Physics).

The Department 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 and isotope technicians receive instruction by members of this Department.

Twelve staff members work full time in radiology in the teaching hospitals and the College of Medicine.

The teaching of radiology extends through the entire four years. In conjunction with the Department of Anatomy, lecture-demonstrations of the normal roentgen anatomy are given during the first year. In conjunction with the Department of Physiology, fluoroscopic demonstrations of the chest and alimentary tract are conducted at the hospitals. During the first part of the second year, students are instructed in the principles of diagnostic and therapeutic radiology. Second- and third-year students receive sectional instruction in film analysis. Third- and fourth-year students attend weekly radiology conferences. A month’s elective in radiology is offered to fourth-year students.

A fully accredited residency program is available and utilizes the facilities of the College of Medicine and cooperating hospitals. Staff members participate in nearly all of the teaching conferences of the College of Medicine.
The Department of Rehabilitation Medicine

Acting Chairman: Harriet E. Gillette, M.D. Associate Professor Gillette; Assistant Professor Ford; Instructor Milhous.

Program of Instruction: Instruction in rehabilitation medicine for medical students and other students in the health professions is at present conducted in association with other departments in the College of Medicine.

The Department of Rehabilitation Medicine was established in the College of Medicine of the University of Vermont in February 1966. Department offices are presently at the Vermont Rehabilitation Center, which is operated by the State of Vermont in association with the College of Medicine. The purpose of the Department is to establish patient services in physical medicine and rehabilitation in the University teaching hospitals and the Rehabilitation Center; to teach students in the health professions, and to conduct research in this area of medical practice.

The prevention and early recognition of disability will be stressed in the patient care and teaching programs of the Department. Evaluation of the several aspects of a patient's handicap is performed by objective testing methods such as electromyography, performance of activities of daily living, psychologic testing, and by observation of behavior patterns and attitudes.

The Department utilizes the resources of various departments in the College of Medicine and other areas of the University. It complements the diagnostic and therapeutic efforts of other departments in the College of Medicine by establishing a diagnosis of disability. Treatment and counseling relative to the disability are emphasized employing the talents of counselors and therapists, as well as physicians. Included among the health professions which participate are specialists in vocational counseling, hospital administration, physical therapy, occupational therapy, speech pathology, psychology, industrial arts, rehabilitation nursing and social work.

Among the objectives of the State Rehabilitation Center is the development of out-of-hospital services that will be available throughout the State and the provision of training for health professionals in rehabilitation in Vermont and the "health region" served by the University of Vermont.

Liaison is maintained with the official and voluntary agencies which are interested in rehabilitation.

The Department of Rehabilitation Medicine is concerned with the development of a service to evaluate human function that is diminished or lost through congenital or acquired disability. It offers therapy and counseling services designed to shorten the period of convalescence following acute illness or injury; to render a diagnosis of
disability and to evaluate its effect on the individual, his family and his community; to return disabled people to work or to school, or to the highest level of self-care that is possible.

Summer Fellowships in Rehabilitation: The Vocational Rehabilitation Administration of the Department of Health, Education and Welfare supports a number of Summer Fellowships in Rehabilitation. These are available for periods of two or three months, during which time the student receives an appropriate stipend. The student is associated with members of the faculty and house staff in the Department of Rehabilitation Medicine. Students become acquainted with the types of patients that are referred to a rehabilitation service and with the techniques and methods used by the allied health professions, official and voluntary community health and welfare agencies and with the large number of other services which are needed by patients with long-term illness and disability.

It is hoped that some of the Summer Fellows will become interested in rehabilitation medicine to the extent of selecting it as a career. More important, an effort is made to develop a broad understanding of this field of medicine so that students who participate will be better physicians and will understand that rehabilitation services are an essential part of good medical care.

MAJOR PROGRAM

An elective in Rehabilitation Medicine is offered during the major program. The duration of this elective is four weeks. During this period the student is associated with members of the faculty in the Department of Rehabilitation Medicine. He is introduced to the mission and some of the techniques of rehabilitative medicine. He is associated with department staff when rehabilitation goals for patients with disabilities are established. He will attend ward rounds, Coordinating Clinic and other departmental activities. Case conference is conducted once weekly at which time the physicians in the Department and the directors of the various sections discuss the goals of rehabilitation for Rehabilitation Center patients. Participants in these conferences include the Chief of Physical Therapy, Occupational Therapy, Nursing, Social Work, Vocational Counseling, Prosthetics and other sections.

It is anticipated that the student who completes this elective will have a good idea of rehabilitative medicine and will have some understanding of the use of the allied health sciences which are associated with rehabilitation. The role of official and voluntary health agencies which are concerned with rehabilitation and long-term medical care is stressed.
The Department of Surgery

Chairman: Albert G. Mackay, M.D. Professor Mackay; Professors (Clinical) Gladstone and Page; Associate Professors (Clinical) Farnham and Truax; Assistant Professor Topuzlu; Assistant Professors (Clinical) Barney (Plastic), Cain, Haines (Oncology), Keller, McGill, McSweeney and Shea; Instructors Bunker, Caccavo and G. E. Howe; Instructors (Clinical) Crandall, Linton (Plastic) and L. G. Thabault.

The Department offers training in disciplines leading to a knowledge of the science of surgery.

The Department concerns itself also with training personnel in the approved intern appointments of both local hospitals and their residency program, which latter is a four-year approved program and is conducted jointly by the College of Medicine and the hospitals. The completion of this residency program leads to full qualification for admission to examination by the American Board of Surgery, and, indirectly, to experience completing qualification for fellowship in the American College of Surgeons.

Postgraduate courses are given in conjunction with other departments under the guidance of the Committee on Postgraduate Education.

BASIC SCIENCE CORE

INTRODUCTION TO CLINICAL SURGERY. In the first period of the second year, the staff of the Department of Surgery take part in the interdisciplinary course presented as “The Introduction to Clinical Disciplines” which includes the surgical principles to be elucidated and is described in greater detail elsewhere.

CLINICAL SCIENCE CORE

The core course in clinical surgery is presented in an intensive twelve-week course at the termination of which examinations are held. The course consists of approximately three parts, the first of which consists of basic surgical principles applicable to all surgical fields. This part is given by various members of the basic and specialty surgical staffs designated in accordance with their particular skills and interests. The second part of the course embraces the principles of general surgery and traumatic surgery; the third part, the principles of the surgical specialty. This material is presented in an early-morning seminar five days a week from 8:00 to 9:00 a.m. following which one third of the students are assigned to their specialty services and two thirds of the students are assigned to specific surgical wards in either teaching hospital. On assigned wards the student is responsible for the work-up and observation of specific patients, becoming an integral part of a clinical team made up of the intern and resident staff members, who are responsible for review of the student’s clinical work.

Three days a week the student is responsible for the presentation of cases to a staff sur-
geon from 10:30 to 12:00 noon at the bedside or in seminar room. These case presentations are mandatory and are chosen by the resident surgeon for presentation to the attending staff, the case presentation being accompanied by a review of surgical text material and current surgical literature on the subject of the patient's disease.

The student shall accompany his patient to the operating room whenever this provides an essential part of the continuity of care. The student shall not be expected to scrub, but may do so if he shows particular interest.

Afternoon time is largely free for thorough patient work-ups and readings.

When the student is assigned to specialty surgery, his immediate responsibilities will vary with the specialty in question. This specialty assignment will include one tour of duty in the emergency department of the hospital.

Student progress is evaluated each month by the Surgical Faculty.

At the conclusion of the twelve-week course, written and oral examinations are given and evaluated for course credit and honors.

MAJOR PROGRAM

The Department of Surgery is currently developing a Major Program which may be elected by medical students at the completion of the Clinical Science Core. This Major, as presently contemplated, will include a period of basic science instruction in surgical anatomy, surgical pathology, experimental surgery, physiology and biochemistry. Clinical work included under the Major Program will consist of elective periods in the various surgical specialties and in related clinical areas. It is contemplated that this Program will be a suitable background for general surgery or any of the surgical specialties.

Division of Anesthesiology

Chairman: John Abajian, Jr., M.D. Professor Abajian; Associate Professors (Clinical) Dente, Mazuzan and Mills; Assistant Professors (Clinical) R. S. Dean and Shinozaki; Clinical Associate Lucia.

The third-year instruction will be confined to intensive, small-group, operating room didactic and practical experience. A two-week elective program for fourth-year students is available on the surgical rotation.

A full month of elective may be taken with special permission. Weekly anesthesia conferences are open to students. The resident training program consists of the appointment of six residents for two years.
The Department of Surgery

Division of Neurosurgery

Chairman: R. M. Peardon Donaghy, M.D. Professor Donaghy; Professor (Clinical) Wallman; Assistant Professor Numoto (Experimental); Assistant Professor (Clinical) Flanagan.

The Division of Neurosurgery exists for four main purposes; research, teaching, therapy of neurological conditions by surgical measures, and aid to all regional practicing physicians via the medium of consultation.

Third-year students during the rotation on surgery meet in small clinical conferences and share in combined conferences on neuropathology and neuroradiology.

They serve as clinical clerks and gain experience in the presentation of patients in conference, the preparation of patients for presentation and the preparation of a bibliography.

They are welcomed to the daily neurosurgical rounds and the weekly staff conference, as well as to the Monday noon teaching hour for residents.

Fourth-year students work in the combined neurology-neurosurgery outpatient clinics. An elective in neurosurgery is offered to those fourth-year students who are certified by the Dean of Medicine to be in the upper third of the class and who have demonstrated aptitude for both neurology and general surgery. This may be taken in clinical or experimental neurosurgery.

Those who choose clinical neurosurgery make complete daily ward rounds, work-up selected patients, assist in the operating room, perform ward duties under direction such as lumbar punctures and dressings both by the neurosurgical technique and spend time in the offices of attending neurosurgeons watching the combined neurological and surgical approach to problems.

Those who select experimental neurosurgery will take part in current research projects and obtain experience in surgery in the laboratory, principles of research and statistics. A full-time neuro-chemist and a full-time neuro-physicist are available to the beginning researcher for consultation.

A four-year residency program is offered.

Neurosurgical services are maintained in each unit of the local teaching hospital.

Division of Pediatric Surgery

Chairman: R. W. Paul Mellish, M.D., B.S. Associate Professor Mellish; Instructor Ty. The Division of Pediatric Surgery aims to provide optimum surgical care for children.
The teaching program complements the general surgical courses with demonstrations and lectures for the third-year students designed to enable them to recognize pediatric surgical problems. Tutorial sessions are held at both units of the local hospital. These are directed toward case presentation by the students. Pediatric surgical rounds are made daily at each unit. A Pediatric Surgical Conference is held once a week with multidisciplinary discussion of pediatric surgical problems. In the fourth year, the students may take an elective in pediatric surgery.

An active research program is under way with particular stress on problems of the newborn infant. Third-year students are given the opportunity to develop their interests in summer research fellowships. Fourth-year elective students may take part in the research.

The service is integrated with the general surgical residency program and works closely with the Department of Pediatrics in the care of patients.

Division of Thoracic and Cardiac Surgery

Chairman: Emil Blair, M.D. Professor Blair; Associate Professor (Clinical) Miller; Assistant Professor Geha.

The thoracic surgeon is a specialist in disease within the chest, who also performs surgery. The teaching program of Thoracic and Cardiac Surgery emphasizes the dynamic interplay of medical sciences and humanities in achieving optimal patient care. Sponsored formal meetings include a weekly combined medical-surgical conference, a monthly thoracic X-ray review, a monthly Thoracic Surgical Pathology Conference, combined conferences with the Cardiopulmonary Division, and cardiac surgery workshops. Formal lectures are kept to a minimum, with preferential teaching on rounds, "spot seminars," and student tutorials. The students participate actively in work-up and presentation of patients, in surgery (including open-heart) and in postoperative management.

Diagnostic activities include the more sophisticated assessment of coronary and other heart disease, as well as conventional procedures in thoracic and cardiovascular problems. Techniques in diagnosis and in disease evaluation are under constant research and development. The clinical program includes all phases of thoracic and cardiovascular disease in the two affiliated hospitals, as well as related consultative programs at the Vermont Sanitorium in Pittsford, and at the Barre Chest Clinic. Operative pro-
The Department of Surgery

programs, in addition to conventional thoracic procedures, include cardiopulmonary bypass for open-heart surgery. Postoperative care involves the required attention to customary problems and, in addition, intensive postoperative management of serious problems, including Special Care Unit. The research program is concerned with all facets of cardiovascular pulmonary disease and shock. Both experimental and clinical investigative problems relate to open-heart surgery, to postpump syndromes, the modification of existing and development of new prosthetic valves, postoperative assessment of cardiac and of pulmonary function after surgery and shock. A broad program in coronary surgery integrated with other departments within the medical school, is under development. Summer student fellowships are available each year in all programs.

Division of Urology

Chairman: Guy W. Leadbetter, Jr., M.D. Professor Leadbetter; Associate Professor (Clinical) Powell; Assistant Professor (Clinical) Fagan; Instructor (Clinical) Esposito.

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 material to be covered.

Patient material is used to assist in this effort. Third- and fourth-year teaching is carried out almost entirely in the hospital where the students are particularly active on the wards and in the outpatient departments. They are occupied with patient study, weekly urological rounds, intravenous pyelography conferences, observation in cystoscopy and operating rooms. Students in their senior year may take an elective month in urology, and in some instances, carry on research projects throughout the year.

A three-year approved urological residency program has been operational for a number of years with clinical and research material gathered from both Units of the teaching hospital and the College of Medicine research unit. Research projects in recent years have been carried out in cinefluorography, hypertension, microsurgery of ureter and vas deferens, and so forth.

Interns are assigned to urology in both Units and participate in teaching and conferences.
Medical Librarian George H. Hunter, M.A.; Assistant Librarian Mrs. Ellen Gillies, B.S. in L.S.

The Medical Library is located in the center of the Medical College complex, between the Medical Alumni and the Given Medical Buildings. Two floors and stacks house about 30,000 volumes, including a small but growing collection of rare books, medical instruments and apparatus of our Vermont Medical history. Exhibits in the literature and history of medicine are presented regularly.

The library receives regularly about 1,100 journals and adds about 200 new titles annually.

All users have free access to the open stacks, which contain study carrels. Further space for readers is provided on the main floor reading room.

The Library is open from 8:30 a.m. to 1:00 a.m. Monday through Saturday, and 10:00 a.m. to 1:00 a.m. Sunday.

Photocopy service is available on the ground floor (machine room) where an experienced Xerographist will be on duty from 8:30 a.m. to 5:00 p.m., Monday through Friday. A coin-operated photocopy machine will also be available on the main floor of the library. A TWX (teletype) machine provides speedy transmission of interlibrary loan requests. The facilities of larger medical libraries such as the Yale Medical Library and the Countway Library of Medicine (Harvard) are thus readily available to the students and faculty. The University of Vermont Medical Library is actively participating in current planning for library cooperation on a local, regional and national basis.
In June, 1966 the University of Vermont College of Medicine was among the first five institutions in the country to be awarded a three-year grant by the National Institutes of Health to plan a Regional Medical Program for Heart Disease, Cancer and Stroke (P.L. 89-239). The overall goal of the Program is to improve the care of patients with these three diseases. Specific objectives of the Program include:

- Devising ways of making the latest medical knowledge available to the practicing physicians and allied health personnel as rapidly as possible;
- Promoting cooperation among individuals and agencies involved in health care;
- Stimulating local initiative in planning for the health care needs of northern New England.

The staff of the Regional Medical Program is working closely with the Department of Community Medicine, the Office of Continuing Medical Education and the State Health Department to meet the objectives of the Program.

An operational grant request for funds has been submitted to the Division of Regional Medical Programs. If approved, the Program will continue on an operational basis for five years.

Division of Photography

Director Francis C. Mallory, R.B.P.; Medical Photographer Wing M. Woon; Medical Illustrator Elizabeth Sourmail.

The Division of Photography will be moving into a modern photo section with the completion of the new medical college building. This Division has a full-time staff whose services are available to all Departments of the College of Medicine for patient photography, photomicrography, art work and teaching aids in both black and white, and in color.
Honors and Prizes

Certain students who have been top-ranking during the entire four years' course of study in the college may be graduated as Doctors of Medicine, cum laude, upon recommendation of the Advancement Committee and the Faculty.

Prizes for general high standing for four years shall be awarded only to students who have been enrolled for four years at this college.

Clinical prizes may be awarded to any student who has spent the third and fourth years at this college.

Alpha Omega Alpha, Honor Medical society: Students are elected to this national society by faculty and student members. Selection is based not only upon high academic records but also upon evidence of individual scholarship and promise for an outstanding medical career.

The Governor Woodbury Prizes: The income from a fund of one thousand dollars, augmented by funds from the Century Club of the UVM Medical Alumni Association, provides two prizes annually. 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.

The Helaine Mesch Memorial Award: This award is presented annually by the class of 1961 to the most deserving senior, the recipient to be selected by his classmates.

The UVM Century Club Prizes for Scholarship: These prizes are awarded annually to the two students attaining the highest scholastic rank in their class during four years at the University of Vermont.

The Lamb Foundation Awards are presented to those students who best exemplify the highest ideals of physician-patient relationships.
Honors and Prizes

The Mosby Scholarship Book Awards are given to the five students selected for excellence of performance and service to their class.

The UVM Century Club Prize for Undergraduate Research: This is an annual award presented for performance of a research project with outstanding competence.

The William Eustis Brown Alumni Prize: This award is presented annually to a graduating student on the basis of broad cultural interests and loyalty to the College of Medicine. The award was established by an annual grant from the Century Club of the UVM Medical Alumni Association.

The Ernest Hiram Buttes Century Club Prize: This award is presented annually to the second-year student selected by the Department of Pathology for outstanding performance in that subject.

HONORS AND PRIZES, 1968

Carbee Prize, for greatest proficiency in the subject of Obstetrics, Stephen E. Clark, B.A.

Woodbury Prizes in Medicine: for greatest proficiency in Clinical Work in senior year, Charles M. D'Angelo, B.A.; to the sophomore having the highest standing for two years of Medical Work, Karen Preis, B.A.

Helaine Mesch Memorial Award, Sydney Wedmore, A.B.

Cum Laude:

| Charles Michael D'Angelo, B.A. | David Ralph Schmottlach, A.B. |
| Robert Joseph Malvesta, A.B. | Timothy John Terrien, B.A. |

Alpha Omega Alpha, National Honor Medical Society:

| Charles M. D'Angelo, B.A. | Robert H. Lenox, B.S. |
| Robert J. Malvesta, A.B. | Paul R. Olson, B.A. |
| Timothy J. Terrien, B.A. | Clarence C. Whitecomb, B.A. |

The William Eustis Brown Alumni Prize, awarded to a senior on the basis of broad cultural interests and loyalty to the College of Medicine, Morris Ostroff, B.A.
The UVM Century Club Prizes for Scholarship, awarded to the two students attaining the highest scholastic rank based on four years completed at the University of Vermont College of Medicine. 1st Prize, Charles M. D'Angelo, B.A.; 2nd Prize, Timothy J. Terrien, B.A.

The Ernest Hiram Buttles Century Club Prize, awarded to the sophomore selected by the Department of Pathology for outstanding work in that subject, James R. Greene, A.B.

The Roche Award, given to a student whose compassion and appreciation of patients' needs promise distinguished service in the care of the sick. James E. Emmons, B.S.

The Pfizer Award, awarded annually to a student on the basis of scholastic record, financial need, or both, Thomas I. Soule, B.A.

The UVM Century Club Prize for Undergraduate Research, Robert Malvesta, A.B.

The Lamb Foundation Awards, given to those students who best exemplify the highest ideals of physician-patient relationships.

David J. Keller, B.A.  
Paul R. Olson, B.A.  
Timothy J. Terrien, B.A.

The Mosby Scholarship Book Awards, given for excellence of performance and service to the class.

Merrick S. Fisher, B.A.  
Sylvia Schechner, B.S., M.S.  
David R. Schmottlach, B.A.  
David A. Strassburg, B.A.
Clarence H. Beecher Memorial Lecture: In 1960 the Vermont Heart Association established this memorial lecture in honor of one of its founders and past president, Dr. Clarence H. Beecher.

Wayne Griffith Memorial Lecture: In 1960 the Vermont Division of the American Cancer Society established a memorial lecture for Wayne Griffith, M.D., formerly of Chester, Vt.

Organizations

STUDENT COUNCIL
Two elected representatives from each class, and the president of each class ex officio, form a student council which meets with the Dean and the Assistant Dean for Student Affairs regularly during the academic year.

ALPHA OMEGA ALPHA
A chapter of the national medical honor society was installed at this College on November 21, 1952.

BEAUMONT MEDICAL CLUB
The Beaumont Medical Club was formed for the enjoyment of the history of medicine. Informal meetings are held through the year, and there is an annual formal lecture. The Medical Alumni Association provides financial support.

THE OSLER CLINICAL SOCIETY
The Osler Clinical Society, which was organized in 1929, is composed of all undergraduate students in the College of Medicine.

MEDICAL STUDENTS WIVES CLUB
Wives of medical students meet frequently during the year for social activities and other projects.
The University of Vermont Medical Alumni Association, whose membership is made up of all graduates of the College of Medicine, is increasingly active in its support of the school and the student body.

Each fall the Alumni Association sponsors a Century Club banquet, at which time all members of the junior class are entertained and recent graduates of the medical school help prepare the prospective graduates for their years of postgraduate education.

The Alumni Association also sponsors many awards and prizes which are given to outstanding students.

At Commencement the Medical Alumni Association sponsors an annual alumni banquet on Alumni Day, at which time the senior class members and their guests meet with all alumni who are returning for Commencement.

In addition, the Alumni Association through its Century Club sponsors many student and faculty endeavors during the year. This includes such activities as the sponsorship of visiting professors, the support of students who are doing research, and of studies of educational methods in medicine.

For the year 1968-69 the following alumni serve as officers of The University of Vermont Medical Alumni Association:

President—Joseph N. Russo, '45, Hartford, Conn.
President-Elect—Thomas G. Cogswell, '38, Concord, N.H.
Vice President—John C. Cunningham, '35, Burlington
Secretary-Treasurer—Ralph D. Sussman, '38, Burlington
Executive Committee—Edward S. Irwin, '55, Burlington; John P. Tampas, '54, Burlington; A. Bradley Soule, Jr., '28, Burlington.
The Board of Trustees

Lyman Smith Rowell, M.S., L.H.D., President
Philip Henderson Hoff, B.A., LL.B., Governor*

March, 1963-March, 1969
Allan Beham Angney, Jr., B.S.
Bartholomew Francis Garrity, B.S.
Sanborn Partridge, LL.B., M.S.
Ellery Redfield Purdy, B.S., M.Ed.

March, 1964-March, 1970
Lawrence James Doolin, B.S.
Floyd Merle James, B.S.
George Hamilton Cook, Jr., B.S. (March, 1968-March, 1970)

March, 1965-March, 1971
William Thomas Burns, B.S.
Edward Richardson Euriich
Leo O'Brien, Jr., B.A.
Walter Cabot Paine, A.B.

March, 1966-March, 1972
John Luther Beckley, Ph.B.
Leon Donald Latham, Jr., Ph.B., LL.B.
Kenneth Nash Scott, B.S.

March, 1967-March, 1973
Peter Giuliani
Elwyn Edward Miller, B.S.
Robert Emmett O'Brien, B.S., M.D.
George Howard Sloan, M.A.

March, 1968-March, 1974
Bingham Johnson Humphrey, B.S., Ph.D.
George Edward Little, Jr., A.B.
Charles Theodore Schechtman, M.D.

*Dean Chandler Davis, LL.B. Elected Governor 1968

Ex-Officio

Arlington, Vt.
Burlington, Vt.
Proctor, Vt.
Mendon, Vt.

Burlington, Vt.
Leominster, Mass.

Dorset, Vt.
Waitsfield, Vt.
South Burlington, Vt.
Woodstock, Vt.

Montclair, N.J.
Burlington, Vt.
Detroit, Mich.

Montpelier, Vt.
Putney, Vt.
Winooski, Vt.
Rutland, Vt.

Mt. Carmel, Conn.
Burlington, Vt.
New Britain, Conn.
Academic Divisions and Colleges of the University of Vermont

Lyman Smith Rowell, M.S., L.H.D.
Clinton Dana Cook, Ph.D.

THE COLLEGE OF ARTS AND SCIENCES
Alfred Brooks Rollins, Jr., Ph.D., Dean

A general four-year program is provided leading to the degree of Bachelor of Arts with the opportunity for concentration in one or more of the following studies: botany, chemistry, commerce and economics, English, French, geology, German, Greek, history, Latin, mathematics, music, philosophy, physics, political science, psychology, sociology, Spanish, speech, and zoology. Pre-professional programs for students who plan to continue their education in professional schools may be planned.

THE COLLEGE OF AGRICULTURE AND HOME ECONOMICS
Thomas Whitfield Dowe, Ph.D., Dean

Four-year curricula are offered leading to the degrees of Bachelor of Science in Agriculture, in Agricultural Engineering, and in Home Economics. Also offered is a two-year program in pre-veterinary science which prepares students for admission to other institutions for professional training.

THE COLLEGE OF TECHNOLOGY
Warren Orvel Essler, Ph.D., Dean

Included in this college are curricula in civil, electrical, mechanical and management engineering, and professional chemistry.

THE COLLEGE OF EDUCATION
John Emerson Baker, Ph.D., Acting Dean

Four-year curricula are offered leading to the Bachelor of Science degree in the fields of elementary, secondary, business, and music education.

THE DIVISION OF HEALTH SCIENCES
Edward Clinton Andrews, Jr., M.D., Dean

The Division of Health Sciences includes:

THE COLLEGE OF MEDICINE
Edward Clinton Andrews, Jr., M.D., Dean

The College of Medicine offers a four-year graduate program leading to the
degree Doctor of Medicine and provides facilities for a limited number of candidates for other graduate degrees to take courses in its departments.

THE SCHOOL OF NURSING
Norma Lowyn Woodruff, M.A., Director

The School of Nursing offers a four-academic-year curriculum leading to the degree of Bachelor of Science in Nursing.

A two-year program leading to the degree Associate of Science in Nursing will be initiated in September, 1969.

THE SCHOOL OF ALLIED HEALTH SCIENCES
Robert William Coon, M.D., Director

The School of Allied Health Sciences offers an Associate Degree in Dental Hygiene, a Bachelor of Science in Medical Technology, and an Associate Degree for Medical Laboratory Technicians.

THE GRADUATE COLLEGE
William Hooper Macmillan, Ph.D., Dean

Opportunities for graduate study are offered in academic fields in which University resources have made sound graduate programs possible. Doctoral programs have been inaugurated in several areas and Master's programs are available in nearly all departments. The Graduate College administers all studies beyond the Bachelor's degree with the exception of the program of the College of Medicine leading to the degree Doctor of Medicine.

CONTINUING EDUCATION

THE SUMMER SESSION
Raymond Virgil Phillips, Ph.D., Dean
Jack Ernest Little, Ph.D., Assistant Dean

Courses are offered on both the graduate and undergraduate level in many subjects under the regular staff, as well as special classes given by visiting instructors.

THE EVENING DIVISION
John Robert Bushey, B.S., Director

Courses are offered on the University of Vermont campus and at other locations throughout the State.
College of Medicine Administration

Edward Clinton Andrews, Jr., A.B., M.D.
William Hossfeld Luginbuhl, B.S., M.D.
David Babbott, B.A., M.D.
Stanley Livingston Burns, Jr., A.B., M.D.
John Edmund Mazuzan, B.S., M.D.
Chester Albert Newhall, A.B., M.D.
Harold Barnard Pierce, B.S., M.S., Ph.D.
Robert Rolf Struthers, B.A., M.D.C.M., F.R.C.P.(C)

Assistant to the Dean for Regional Medical Affairs

George William Welsh, B.A., M.D.

Dean

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Secretary of the Faculty

Adviser on Student Affairs

Assistant to the Dean for Regional Medical Affairs

George William Welsh, B.A., M.D.

Director, Office of Continuing Medical Education

Dean

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Secretary of the Faculty

Adviser on Student Affairs

Assistant to the Dean for Regional Medical Affairs

George William Welsh, B.A., M.D.

Director, Office of Continuing Medical Education

Executive Assistant

John Egmont Wennberg, B.A., M.P.H., M.D.

Director, Regional Medical Program

Executive Assistant

James Henry Bates, B.S., M.Ed.

Executive Assistant

Cornelia Josephine Baylies, A.B.

Executive Assistant

Mrs. Margaret Miller Hinman, B.S.

Executive Assistant

Mrs. Wendy Gayley Smith

Executive Assistant

STANDING COMMITTEES 1968-69

Executive Committee

Edward C. Andrews, Jr., Chairman. Norman R. Alpert; David Babbott; Stanley L. Burns, Jr.; Robert W. Coon; John C. Cunningham; John H. Davis; Harriet E. Gillette; Franklin T. Hoaglund; Charles S. Houston; Hans R. Huessy; William H. Luginbuhl; John Van S. Maecck; John E. Mazuzan; Robert J. McKay; Donald B. Melville; Durwood J. Smith; A. Bradley Soule, Jr.; Warren R. Stinebring; W. Allan Tisdale; William J. Young; Ellsworth L. Amidon (ex officio); George H. Hunter (ex officio); Herluf V. Olsen (ex officio); Lester J. Wallman (ex officio); George W. Welsh (ex officio); Norma L. Woodruff (ex officio).

Admissions Committee

Stanley L. Burns, Jr., Chairman. David Babbott; Dewees H. Brown; Joseph C. Foley; John C. Lantman; Alexander Nies; J. Ward Stackpole; John P. Tampas.

Advancement Committee

David Babbott, Chairman. Members of Executive Committee and division chairmen.

Animal Facilities Committee

Henry M. Doremus, Chairman. Emil Blair; Ernest Reit.

Awards and Fellowships Committee

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Building Committee

Donald B. Melville, Chairman. Robert W. Coon; John Van S. Maecck; Durwood J. Smith.

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Huessy; William H. Luginbuhl; Herluf V. Olsen, Jr.; John Van S. Maeck; Ethan A. Sims; W. Allan Tisdale.

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History of College of Medicine Committee
Lester J. Wallman, Chairman. Paul K. French; George H. Hunter; Arthur S. Kunin; Chester A. Newhall; Harold B. Pierce; A. Bradley Soule, Jr.

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Joint Executive Agency
The University of Vermont: Lyman S. Rowell, President; Edward C. Andrews, Jr., Dean, College of Medicine. The Medical Center Hospital of Vermont: William S. Cowles, Jr., President; Thomas B. Wright, Jr., Vice President; Herluf V. Olsen, Jr., Executive Director.

Library Committee
Bert K. Kusserow, Chairman. Warren L. Beeken; William L. Meyer; Burton S. Tabakin; George H. Hunter (ex officio).

Medical Center Committee
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Thomas Stephen Brown, M.D., University of Vermont, 1904. Professor of Anatomy.

Rupert Addison Chittick, B.S., University of Nebraska, 1923; M.A., 1924; M.D., Harvard, 1929. Professor of Psychiatry.

Paul Dennison Clark, M.D., University of Vermont, 1926. Associate Professor of Pediatrics.

Oliver Newell Eastman, M.D., University of Vermont, 1908. Professor of Obstetrics and Gynecology.

J. Louis Philippe Forest, A.B., Laval, 1920; M.D., University of Montreal, 1925. Assistant Professor of Clinical Psychiatry.


Elizabeth Kundert, B.S., University of Wisconsin, 1920; M.S., 1924; M.D., Women's Medical College of Pennsylvania, 1926. Assistant Professor of Clinical Psychiatry.

Peter Paul Lawlor, M.D., University of Vermont, 1920. Assistant Professor of Otolaryngology.

*Edward Douglas McSweeney, A.B., University of Vermont, 1919; M.D., 1922. Assistant Professor of Gynecology.


Chester Albert Newhall (Thayer Professor of Anatomy), A.B., North Central College, 1924; M.D., University of Vermont, 1928. Professor of Anatomy. p. 25, 70, 71.


William Raab, M.D., University of Vienna, 1920; M.D., German University of Prague, 1926. Professor of Experimental Medicine.

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

William Greenhill Young, M.D., University of Toronto, 1930.

PROFESSORS


Norman Roland Alpert, A.B., Wesleyan, 1943; Ph.D., Columbia, 1951. p. 46, 70.

Ellsworth Lyman Amidon, B.S., Tufts College, 1927; M.D., University of Vermont, 1932; M.S. (Med.), University of Pennsylvania, 1938. p. 34, 70, 71.


Emil Blair, M.D., Medical College of Georgia, 1946. p. 57, 70.

* Deceased July 16, 1968.

John Charles Cunningham (Shipman Professor of Ophthalmology), A.B., University of Vermont, 1931; M.D., 1935. p. 39, 70, 71.

Raymond Madiford Peardon Donaghy, B.S., University of Vermont, 1933; M.D. 1936. p. 56.

Fred Williams Dunihue, A.B., Wabash College, 1929; M.S., New York University, 1931; Ph.D., 1934. p. 25.

Arthur Gladstone, B.S., University of Vermont, 1928; M.D., 1931. p. 54, 71.


Donald Boyce Johnstone, B.S., Rhode Island State College, 1942; M.S., Rutgers, 1943; Ph.D., 1948. p. 32.


Eugene Lepeschkin (National Institutes of Health Research Career Award), M.D., University of Vienna, 1939. p. 34.


Albert George Mackay, B.S., University of Vermont, 1929; M.D., 1932. p. 54, 70, 71.


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Donald Burton Melville, B.S., University of Illinois, 1936; M.S., 1937; Ph.D., 1939. p. 28, 70, 71.


Harold Gordon Page, B.S., University of Vermont, 1940; M.D., 1945. p. 54.

Lester Edmund Richwagen, B.S., Dartmouth, 1923.

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George Adam Schumacher (National Institutes of Health Career Professorship Award), B.S., Pennsylvania State University, 1932; M.D., Cornell, 1936. p. 37.


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ASSOCIATE PROFESSORS


Sinclair Tousey Allen, Jr., B.A., Williams College, 1936; M.D., Harvard, 1940. p. 34.


* Deceased April 11, 1968.

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George Wilson Brooks, B.S., University of New Hampshire, 1941; M.D., University of Vermont, 1944. p. 49.


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Alfred Hayes Chambers, A.B., Swarthmore, 1936; Ph.D., University of Pennsylvania, 1942. p. 46.


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Herbert Ashley Durfee, Jr., B.S., Yale, 1948; M.D., University of Vermont, 1948. p. 38, 71.

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Ben Ralph Forsyth, M.D., New York University, 1957. p. 32, 34, 70.


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Christopher Patrick McAree, M.B., B.Ch., B.A.O., Queens (Ireland), 1956; Diploma Psychological Medicine, Royal College of Physicians and Surgeons (London), 1961; Diploma Psychiatry, McGill, 1962. p. 49.
James Bishop McGill, B.S., University of Vermont, 1944; M.D., 1946. p. 54.
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*On leave.
Charles Pryor Novotny, B.S., Wisconsin State College, 1959; Ph.D., University of Pittsburgh, 1965. p. 32.
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Charles Lewis Ravaris, A.B., Boston University, 1949; Ph.D., McGill, 1954; M.D., University of British Columbia, 1958. p. 49.
Donald Stetson Robinson, B.Ch.E., Rensselaer Polytechnic Institute, 1949; B.Mgmt. E., 1950; M.D., University of Pennsylvania, 1959; M.S., University of Vermont, 1966. p. 34, 45.
Joseph Nicholas Russo, M.D., University of Vermont. 1945. p. 38.
Herbert Savel, M.D., New York University, 1958. p. 34.
Wadi Sawabini (Oral Hygiene and Dental Medicine), D.D.S., American University of Beirut, 1940. p. 34.
William Ireland Shea, A.B., Holy Cross, 1936; M.D., University of Vermont, 1940. p. 54.
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INSTRUCTORS
Patricia Marlene Absher, B.S., University of New Mexico, 1962; Ph.D., University of North Carolina, 1968. p. 32.
Charles Peter Albright, B.A., Allegheny College, 1949; M.D., Cornell, 1953. p. 34.
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Elizabeth Ann Clark, B.S., University of Vermont, 1953; M.D., 1956. p. 43.
Wilton Warner Covey, A.B., Middlebury, 1941; M.D., University of Vermont, 1944. p. 49.
Albert James Crandall, B.S., University of Vermont, 1930; M.D., 1933. p. 54.
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John Richard Fitzgerald, B.S., St. Michael's, 1951; M.D., University of Vermont, 1955. p. 34.
Elizabeth Herta Forsberg, M.D., Erlanger (Germany), 1947. p. 49.
Elizabeth Held Forsyth, B.A., Mount Holyoke, 1953; M.D., Yale, 1957. p. 49.
Edward Esau Friedman, A.B., Norwich, 1942; M.D., University of Vermont, 1950. p. 30, 34, 43.
Antonio Isaias German, B.S., Normal School, Trujillo City, 1946; M.D., University of Santo Domingo, 1952; M.D., University of Vermont, 1960. p. 41.
Charles Morton Gluck, B.A., Hamilton, 1953; M.D., Boston University, 1957. p. 34.
Duane Edgar Graveline, B.S., University of Vermont, 1952; M.D., 1955; M.P.H., Johns Hopkins, 1958. p. 34.
Yoshinori Ishikawa, Ph.D., Hokkaido (Japan), 1961. p. 28.
William Herbert Johnston, B.S., University of Vermont, 1940; M.D., 1943. p. 51.
John F. Keane, M.B., B.Ch., University College (Ireland), 1960. p. 34.
John Clifford Lantman (Family Medicine), B.S., University of Vermont, 1948; M.D., 1951. p. 30, 70, 71.
Hyman Bernard Levine (Family Medicine), B.S., University of Vermont, 1930; M.D., 1939. p. 30.
Carlton Dean Marshall, M.D., University of Vermont, 1949. p. 49.
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Maurice Edward Mongeon, B.S., St. Michael's, 1954; M.D., University of Vermont, 1959. p. 34.


William Arthur Pratt, B.S., University of Vermont, 1941; M.D., 1943. p. 34.


Richard Alan Ryder, B.S., University of Rochester, 1956; M.D., Columbia University, 1963. p. 34.

Robert Newton Saxby, B.S., University of Vermont, 1937; M.D., 1941. p. 51.

James Douglass Sharpe, B.S., New York University, 1933; M.D., Columbia University College of Physicians and Surgeons, 1937. p. 49.

Felix Sommer, M.D., University of Graz, Austria, 1954; Diploma Psychiatry, McGill, 1962. p. 49.


Carol J. Stewart, B.A., Minnesota, 1953; M.S.W., McGill, 1963. p. 49.


Donald Reed Swartz, A.B., Earlham College, 1959; M.D., West Virginia University, 1963. p. 43, 71.


Louis George Thabault, M.D., University of Vermont, 1930. p. 54.

Wilfrid Louis Thabault, B.S., St. Michael's, 1943; M.D., University of Vermont, 1947. p. 38.

Karl Treial, M.D., Tartu (Estonia), 1933. p. 49.

John Cushman Twitchell, B.S., University of Vermont, 1949; M.D., 1953. p. 30, 34.

Tony C. Ty, M.D., University of Santo Tomas, 1958. p. 56.


Maurice James Walsh, B.S., University of Vermont, 1936; M.D., 1939. p. 30, 34.
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Rosemary Cady Brewster, B.S., University of Vermont, 1941; M.D., 1943. p. 49.
Harry Livingston Colombo, B.S., University of Vermont, 1935; M.D., 1938. p. 34.
John Patrick Corley, A.B., Holy Cross, 1937; M.D., University of Vermont, 1943. p. 34.
William Henry Heininger, M.D., University of Vermont, 1939. p. 34.
Charles Eldor Moisan, B.A., University of Vermont, 1957; M.D., 1961. p. 34.
John Louis Saia, B.S., University of Vermont, 1931; M.D., 1934. p. 34.
Namik Kemal Uzsoy, B.Sc., Ataturk Lyceum (Turkey), 1942; M.D., University of Istanbul, 1948. p. 34.
Louis Joseph Wainer, B.A., McGill, 1929; M.D., 1933. p. 34.

DEMONSTRATORS
Betty May LaGrange, B.A., Cornell, 1952; M.S., University of Vermont, 1956. (Biochemistry)

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Richard E. Bouchard, M.D., University of Vermont, 1949; M.S., 1951. Chairman, Progressive Coronary Care Project. p. 60.
Otto A. Brusis, M.D., University of Munich, 1960. Director of Heart Inventory Project. p. 60.

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Aline Louise Demers, B.S., University of Vermont, 1955; M.S., Boston University, 1958. Assistant Director for Nursing. p. 60.


John E. Mazuzan, Jr., B.S., Boston College, 1951; M.D., University of Vermont, 1954. Assistant Dean for Regional Medical Affairs. p. 60.

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Herman Conrad Herrlich, B.S., Rensselaer Polytechnic Institute, 1938; M.S., University of California, 1949; Ph.D., Northwestern, 1953. p. 34.


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TUTOR

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Louise Kelsey, B.A., Wellesley, 1942; M.S., Simmons College, 1948. (Rehabilitation Medicine)

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Sugarbush Valley

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Laurence M. Cohan, B.A., Bellevue Hospital Center, New York, N.Y.
Frederick W. Crowley, B.S., Harrisburg Polyclinic Hospital, Harrisburg, Pa.
Charles M. D'Angelo, B.A., Yale-New Haven Medical Center, New Haven, Conn.
Bruno DePalma, B.A., Good Samaritan Hospital, Portland, Oregon
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Jeffrie B. Felter, B.A., Hartford Hospital, Hartford, Conn.
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David George King, B.A.
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Robert Scott Kramer, B.A.
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Dennis Stanley Kuk, B.A.
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Robert Elliot Leader, B.A.
Rye, N.Y.
Joseph Matthew Lenahan, B.S.
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Forest Hills, N.Y.
Malcolm Waterman MacDonald, B.S.
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Shelburne
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Vincent Arthur DeCesaris, B.A.
North Reading, Mass.

George Stephen Durisek, B.S.
Richfield Springs, N.Y.

William Alois Fajman, A.B.
Massapequa Park, N.Y.

Richard Michael Faraci, B.S.
Bradford, Mass.

Robert Vincent Fernandez, B.S.
Jamaica Plain, Mass.

Christopher Robert Flory, B.S.
New York, N.Y.

Eugene Frederick Fuchs, B.S., B.S.
Richfield Springs, N.Y.

Richard Maurice Gendron, A.B.
Saco, Me.

Norbert Joseph Gilmore, B.A.
Burlington

Thomas Joseph Grady, A.B.
Waltham, Mass.

James Roby Greene, A.B.
Newport, R.I.

Theodore Henry Harwood, Jr., B.A., B.S.
Grand Forks, N.Dak.

David Carl Hinsman, B.A.
Woodstock

Clayton Stanley Hitchings, III, B.A.
Hamden, Conn.

Peter David Hoden, B.A.
Seekonk, Mass.

John Edward Hunt, Jr., B.S.
Norwood, Mass.

Kenneth Irving Hunt, B.A.
Pawtucket, R.I.

Frank Williams Kilpatrick, A.B.
Washington, D.C.

Michael Elis Lupo, A.B.
Cheverly, Md.

Keith Norman Megathlin, A.B., M.S.
Cohasset, Mass.

Walter August Minaert, Jr., A.B.
Jeffersonville

Jeffrey Clement Morse, A.B.
Waterford, Conn.

Joel Hutchings Mumford, B.A.
Killington

Andrew Dennis Parent, A.B.
Enosburg Falls

Lawrence Perlmutter, B.A.
Burlington

Karen Preis, B.A.
River Edge, N.J.

Darryl Lee Raszli, B.A.
Syracuse, N.Y.

Martin Jay Rosenstein, A.B.
New York, N.Y.

William Nevins Rush, B.A.
South Burlington

Joel Arthur Sabean, A.B.
Hudson, Mass.

Arthur Jay Sakowitz, B.A.
Riverdale, N.Y.

Steven Hugh Sherman, B.A.
Newton, Mass.

David Allen Simundson, B.A., B.S.
Mohall, N.Dak.

Norman Jay Snow, B.A.
Burlington

Thomas Ingalls Soule, B.A.
Fairfax

David Clayton Staples, B.S.
Brewer, Me.

Daniel Carl Sullivan, A.B.
Cranston, R.I.

Joel Philip Susman, B.A.
Burlington

Normand Francis Tremblay, A.B.
Springfield, Mass.

Judith Hope Tyson, A.B., M.A.
Burlington

Michael Van Rollins, B.A.
Portland, Me.

Louis Vito, A.B.
Providence, R.I.

Clyde Arthur Wright, B.S.
Bradford, N.H.

William James Young, A.B.
North Ferrisburg

SECOND YEAR:

Alan Ray Alexander, B.A.
Medford, Mass.

Robert Paul Andelman, A.B.
Newton, Mass.

Jacob Raphael Aslanian, A.B.
Waltham, Mass.

Alan Dwight Ayer, B.A.
S. Portland, Me.

Charles Maurice Belisle, B.A.
Biddeford, Me.

William Donald Belville, B.A.
Burlington

Neal Marshall Borenstein, A.B.
Waban, Mass.

Patrick Joseph Brannan, B.A.
Providence, R.I.
<table>
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<th>Name</th>
<th>Degree/City</th>
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<td>James Atwood Brennan</td>
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<td>Ernest Gregory Brown</td>
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<td>Carol Love Collin</td>
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<td>David John Coppe</td>
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<td>John Lawrence DeBoer</td>
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<td>William Kenneth Fifield</td>
<td>B.A. Wells Rolf Peter Gobien, B.A.</td>
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<td>Leonard Field Hubbard, Jr.</td>
<td>B.S. Wolfeboro, N.H.</td>
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<td>Wallace Neil Hubbard</td>
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<td>Alan Emory Irwin</td>
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<td>Linda Jean Kilby</td>
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<td>Lorraine Adele Kretchman</td>
<td>B.A. Rutland</td>
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<td>Philip Allan Levin</td>
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<td>Brian Woods Little</td>
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<td>William James MacDonald, Jr.</td>
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<td>Frank Clifton Miller, Jr.</td>
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<td>David Francis Mousaw</td>
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<td>David Allan Peura</td>
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<td>Dennis Arthur Savoie</td>
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<td>Edwin Gerhardt Singsen</td>
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<td>Richard Don Skillen</td>
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<td>John Tibbits Slocomb</td>
<td>B.S. Cumberland, Md.</td>
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<td>Howard David Solomon</td>
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<td>Susanne Elisabeth Sternbach</td>
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<td>Paul Francis Walker</td>
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<td>Lester Arthur York, III</td>
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<td>Jeffrey Robert Alpert</td>
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<td>John Eliot Bassett</td>
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<td>Raymond John Bauzys</td>
<td>A.B. Brockton, Mass.</td>
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<tr>
<td>Richard Michael Beloin</td>
<td>B.A. Canaan</td>
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<td>Joseph Charles Benedict</td>
<td>B.S. Burlington</td>
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<tr>
<td>William Eddy Bennett</td>
<td>B.A. Lincoln, Me.</td>
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<td>Richard Samuel Bierstock</td>
<td>B.S. Mahopac, N.Y.</td>
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<td>Robert Avram Bloomenthal</td>
<td>B.A. Burlington</td>
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<td>James Harold Bress</td>
<td>B.S. Portland, Me.</td>
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<td>Douglas Williams Brown</td>
<td>A.B. Waterville, Me.</td>
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<td>John Edward Butler</td>
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<tr>
<td>Phillip Roe Canfield</td>
<td>B.A. Rockford, Ill.</td>
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<tr>
<td>Henry Robert Casey</td>
<td>B.S. Waltham, Mass.</td>
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</tbody>
</table>
David M. Coddaire, A.B.  
Haverhill, Mass.

David Carl Coletti, B.A.  
Troy, N.Y.

Francis Farrell Collins, Jr., A.B.  
Holyoke, Mass.

Alan D. Covey, B.S.  
Middlebury

Anthony Henriques DeBarros, B.S.  
New Bedford, Mass.

Mark Averill Donavan, B.A.  
Bennington

Mark Lloyd Dubay, B.A.  
Old Town, Me.

Charles Martin Elboim, A.B.  
Cranston, R.I.

John Hall Elliott, B.A.  
St. Johnsbury

Alan Brian Feltmarch, B.S.  
Gardner, Mass.

John R. Feussner, A.B.  
Freeland, Pa.

William Francis Fitzpatrick, B.A.  
Plattsburgh, N.Y.

Maurice Robert Gagnon, A.B.  
Nashua, N.H.

Richard Carmine Gazzero, A.B.  
Providence, R.I.

Thomas Albert Getman, B.S.  
Sherrill, N.Y.

Leo Charles Ginn, B.A.  

Harry Wade Golden, A.B.  
Portland, Me.

Stuart McLaren Graves, A.B.  
Schenectady, N.Y.

Douglas Herman Greenfield, B.A.  
Flushing, N.Y.

Ronald Paul Huntman, A.B.  
Norwich, Conn.

Robert Ronald Holland, B.A.  
Essex Junction

Richard George Houle, B.A.  
Burlington

Daniel Katcher, B.S.  
Manchester Depot

Vernon Starr Kellogg, B.A.  
Stratford, Conn.

Michael Lee Kropsky, B.A.  
Burlington

Marc Paul Lefebvre, B.A.  
Manchester, N.H.

James Helmut Leibfarth, A.B.  
Swedesboro, N.J.

John Charles Lepage, B.A.  
Burlington

Donald Stanley Levi, A.B.  
Portland, Me.

Ronald Alan Marvin, A.B.  
Wayland, Mass.

Richard Craig McGinn, B.A.  
Brattleboro

Donald Leon McGuirk, Jr., B.A.  
Stoughton, Mass.

Albert August Miller, B.A.  
Barre

Donald Barker Miller, Jr., B.A.  
Burlington

James Vincent Mogan, A.B.  
W. Hartford, Conn.

Richard Alden Moriarty, A.B.  
Weston, Mass.

Donald Scott Murinson, A.B.  
Portland, Me.

Ralph Angus Nixon, Jr., A.B.  
Norwood, Mass.

Mary Elizabeth Norris, B.A.  
Nashua, N.H.

John Joseph Oprendek, Jr., B.S.  
Burlington

Russel Smith Page, III, A.B.  
Chevy Chase, Md.

Douglas Jay Pitman, B.A.  
Port Washington, N.Y.

Douglas Edward Provost, B.A.  
Burlington

Howard David Reines, A.B.  
Haverhill, Mass.

Paul Joseph Romanelli, A.B.  
Cranston, R.I.

Robert Henry Ryan, B.S.  
Montpelier

Bruce Berner Shafiroff, A.B.  
Flushing, N.Y.

James Freeman Shaw, A.B.  
American Embassy, Tokyo, Japan

Alan Paul Sherman, A.B.  
Portsmouth, N.H.

Susan Alice Shubert, B.A.  
Bangor, Me.

Richard Eric Stutt, B.A.  
Brooklyn, N.Y.

Richard Joseph Taylor, A.B.  
Bangor, Me.

Richard Lionel Teixeira, B.A.  
Fall River, Mass.

Gary Leroy Towle, A.B.  
Portland, Me.

Susan Piasecky Walsh, A.B.  
Burlington

John R. Waterman, B.A.  
Longmeadow, Mass.

Barbara Lynn Wolk, A.B.  
Rutland

Stephen John Woodruff, B.A.  
Barre
Calendar, 1969-70

September 3, 1969  Wednesday 2:00 p.m.  Convocation.
September 4, 1969  Thursday  Classes begin for class of '72,'73

Class of 1973  Basic Science Core

1st period: Sept. 4, 1969 (Thurs.) through Dec. 19, 1969 (Fri.)
Oct. 22-24  Wed. through Fri.  Mid-period examinations
Nov. 27-30  Thurs. through Sun.  Thanksgiving recess
Dec. 17-19  Wed. through Fri.  End of period examinations

2nd period: Jan. 5, 1970 (Mon.) through Mar. 20, 1970 (Fri.)
Jan. 5  Monday  Classes resume
Feb. 4-6  Wed. through Fri.  Mid-period examinations
Mar. 18-20  Wed. through Fri.  End of period examinations
Mar. 21-29  Sat. through Sun.  Spring recess

3rd period: Mar. 30, 1970 (Mon.) through June 12, 1970 (Fri.)
Mar. 30  Monday  Classes resume
May 6-8  Wed. through Fri.  Mid-period examinations
June 10-12  Wed. through Fri.  End of period examinations

Oct. 28-30  Wed. through Fri.  Mid-period examinations
Nov. 26-29  Thurs. through Sun.  Thanksgiving recess
Dec. 21-23  Mon. through Wed.  End of period examinations

Class of 1972  Basic Science Core

4th period: Sept. 4, 1969 (Thurs.) through Dec. 19, 1969 (Fri.)
Oct. 22-24  Wed. through Fri.  Mid-period examinations,
Nov. 27-30  Thurs. through Sun.  Thanksgiving recess.
Dec. 17-19  Wed. through Fri.  End of period examinations.

Clinical Science Core

January 5—December 18, 1970

Group I

Jan. 5 (Mon.)—Mar. 27 (Fri.), 1970:  Section A—Medicine
Mar. 30 (Mon.)—June 12 (Fri.), 1970:  Section B—Surgery

Summer Recess:  June 13 (Sat.)—June 28 (Sun.)

June 29 (Mon.)—Aug. 21 (Fri.), 1970:  Section a—Obstetrics
Section b—Pediatrics
Section c—Psychiatry

Aug. 24 (Mon.)—Oct. 16 (Fri.), 1970:
Section a—Pediatrics
Section b—Psychiatry
Section c—Obstetrics
Oct. 19 (Mon.)—Dec. 18 (Fri.), 1970:

Section a—Psychiatry
Section b—Obstetrics
Section c—Pediatrics

Thanksgiving Recess: Nov. 26 (Thurs.)—Nov. 29 (Sun.)

Group II

Jan. 5 (Mon.)—Feb. 27 (Fri.), 1970:

Section a—Obstetrics
Section b—Pediatrics
Section c—Psychiatry

Mar. 2 (Mon.)—Apr. 24 (Fri.), 1970:

Section a—Pediatrics
Section b—Psychiatry
Section c—Obstetrics

Apr. 27 (Mon.)—June 12 (Fri.):

Section a—Psychiatry
Section b—Obstetrics
Section c—Pediatrics

Summer Recess: June 13 (Sat.)—June 28 (Sun.)

June 29 (Mon.)—Sept. 18 (Fri.), 1970:

Section A—Medicine
Section B—Surgery

Sept. 21 (Mon.)—Dec. 18 (Fri.), 1970:

Section A—Surgery
Section B—Medicine

Thanksgiving Recess: Nov. 26 (Thurs.)—Nov. 29 (Sun.)

Class of 1971 Clinical Science Core

January 6—December 19, 1969

Group I

Jan. 6 (Mon.)—Mar. 21 (Fri.), 1969:

Section A—Medicine
Section B—Surgery

Mar. 24 (Mon.)—June 11 (Wed.), 1969:

Section A—Surgery
Section B—Medicine

Summer Recess: June 12 (Thurs.)—June 29 (Sun.)

June 30 (Mon.)—Aug. 22 (Fri.), 1969:

Section a—Obstetrics
Section b—Pediatrics
Section c—Psychiatry

Aug. 25 (Mon.)—Oct. 17 (Fri.), 1969:

Section a—Pediatrics
Section b—Psychiatry
Section c—Obstetrics

Oct. 20 (Mon.)—Dec. 19 (Fri.), 1969:

Section a—Psychiatry
Section b—Obstetrics
Section c—Pediatrics

Thanksgiving Recess: Nov. 27 (Thurs.)—Nov. 30 (Sun.)

Group II

Jan. 6 (Mon.)—Feb. 28 (Fri.), 1969:

Section a—Obstetrics
Section b—Pediatrics
Section c—Psychiatry
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<td>Jan. 5 (Mon.)-Feb. 13 (Fri.), 1970</td>
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<td>Feb. 16 (Mon.)-Mar. 27 (Fri.)</td>
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*Thanksgiving Recess: Nov. 26 (Thurs.)-Nov. 29 (Sun.)*

**Senior Major Program**

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*Thanksgiving Recess: Nov. 26 (Thurs.)-Nov. 29 (Sun.)*

**Class of 1970**

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<td>3rd Period</td>
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<td>Graduation: May 17 (Sun.), 1970</td>
<td>Obstetrics</td>
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... an intern's life is not an easy one
ACCREDITATION

The University of Vermont College of Medicine is one of 94 accredited schools of medicine in the United States, having been approved by the American Medical Association and by the Association of American Medical Colleges.

Its residency programs in the Medical Center Hospital of Vermont have been approved by the Council on Medical Education and Hospitals of the American Medical Association and by the respective American Boards.