Address all communications to the Dean’s Office,
College of Medicine, University of Vermont,
Burlington, Vermont
Telephone UN 4-4511, extension 252
CALENDAR

1960-61

September 16 Friday  Enrollment and payment of fees.
September 17 Saturday  Convocation.
September 19 Monday  Class work and assignments begin.

1ST YEAR

1ST QUARTER:  Sept. 19 (Mon.) through Nov. 16 (Wed.)

Nov. 12-16 Sat. through Wed.  Midsemester examinations.

2ND QUARTER:  Nov. 17 (Thurs.) through Jan. 29 (Sun.)

Dec. 21-Jan. 3 Wednesday through Tuesday.  Christmas Recess.
Jan. 4 Wednesday.  Classes resume.
Jan. 16-17 Monday through Tuesday.  No classes.
Jan. 18-25 Wednesday through Wednesday.  Examinations.

3RD QUARTER:  Jan. 30 (Mon.) through April 2 (Sun.)

January 30 Monday.  Classes resume.
Jan. 31 Tuesday.  Enrollment.
Feb. 24-25 Friday and Saturday.  Kake Walk—no classes.
Mar. 29-April 1 Wednesday through Saturday noon.  Midsemester examinations.

4TH QUARTER:  April 3 (Mon.) through June 11 (Sun.)

Apr. 1-9 Sat. noon through Sunday.  Spring Recess.
Apr. 10 Monday.  Classes resume.
May 27 Saturday.  Last day of classes.
May 29-June 7 Monday through Wednesday.  Examinations.

2ND YEAR

1ST FIFTH:  Sept. 19 (Mon.) through Nov. 2 (Wed.)

Oct. 31-Nov. 2 Monday through Wednesday.  Examinations.

2ND FIFTH:  Nov. 3 (Thursday) through Dec. 20 (Tues.)

Nov. 3 Thursday.  Classes resume.
Nov. 23-27 Wed. noon through Sunday.  Thanksgiving recess.
Dec. 17-20 Sat. through Tuesday.  Examinations.
Dec. 21-Jan. 3 Wednesday through Tuesday.  Christmas recess.

3RD FIFTH:  Jan. 4 (Wed.) through Feb. 16 (Thurs.)

Jan. 4 Wednesday.  Classes resume.
Jan. 31 Tuesday.  Enrollment.
4TH FIFTH:  Feb. 17 (Friday) through April 15 (Sat.)
Feb. 24-25  Friday and Saturday.  Kake Walk—no classes.
Feb. 27  Monday.  Classes resume.
Mar. 29-Apr. 1  Wednesday through Saturday noon.  Examinations.
Apr. 1-9  Sat. noon through Sunday.  Spring recess.

5TH FIFTH:  April 10 (Mon.) through June 11 (Sun.)
Apr. 10  Monday.  Classes resume.
May 30  Tuesday.  Memorial Day—no classes.
June 3  Saturday.  Classes terminate.
June 5-10  Monday through Saturday.  Examinations.

3RD YEAR

1ST TRIMESTER:  Sept. 19 (Mon.) through Dec. 10 (Sat. noon)

2ND TRIMESTER:  Dec. 12 (Mon.) through March 11 (Sat. noon)
Dec. 21-Jan. 3  Wednesday through Tuesday.  Christmas recess.
Jan. 4  Wednesday.  Assignments resume.
Jan. 31  Tuesday.  Enrollment.

3RD TRIMESTER:  March 13 (Mon.) through June 11 (Sun.)
Apr. 1-9  Sat. noon through Sunday.  Spring Vacation.

4TH YEAR

August 1  Monday.  Enrollment.
August 2  Tuesday.  Assignments begin.
Dec. 21-Jan. 3  Wednesday through Tuesday.  Christmas recess.
January 4  Wednesday.  Assignments resume.
January 31  Tuesday.  Enrollment.
April 1-9  Sat. noon through Sunday.  Spring Recess.
May 20  Saturday.  Last day of assigned work.
May 22-24  Monday through Wednesday.  Pre-examination days.
May 25-29  Thursday through Monday.  Examinations.
May 30-June 10  Tuesday through Sat.  Vacation.
June 11  Sunday.  Graduation.
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THE BOARD OF TRUSTEES

JOHN THEODORE FEY, J.S.D., LL.D. President
ROBERT THEODORE STAFFORD, B.S., LL.B. Ex-Officio Governor

March, 1955—March, 1961

MERRITT SANFORD HEWITT
MRS. LUCIA THORINGTON LADD, B.S.
BASIL BARRY WALSH, B.S.
GEORGE DUNHAM MASON, B.A.
(From Apr. 28, 1955)

March, 1956—March 1962

HARRY BARKER, D. Eng.
CHESTER BARSTOW EATON, B.S.
CHARLES PLYMPTON SMITH

March, 1957—March, 1963

JOSEPH G. DAVIDSON, Ph.D.
CLIFTON COOLEY STAFFORD, B.S.
LEROY DWIGHT WARE, B.S.
DERICK VANDERBILT WEBB, B.A.

March, 1958—March, 1964

GEORGE LORENZO BEST, B.S.
NEIL TOLMAN, LL.B.
EDWARD MILTON WINANT, M.D.

March, 1959—March, 1965

SAMUEL WILLIAM FISHMAN, B.S., LL.B.
MERRILL ERNEST PERLEY, B.S.
HARRY LEROY SPICER
FRANK M. STANTON, B.S.

March, 1960—March, 1966

LAWRENCE HERMAN AVERILL, B.S.
GEORGE HAMILTON COOK, JR., B.S.
ROBERT MORTON TRACY, B.S.

Secretary of the Board—CHESTER B. EATON
THE UNIVERSITY OF VERMONT

THE COLLEGE OF MEDICINE

GEORGE ANTHONY WOLF, JR., B.S., M.D.  Dean

CHESTER ALBERT NEWHALL, A.B., M.D.

Secretary of the Faculty

HAROLD BARNARD PIERCE, B.S., M.S., Ph.D.  Vice Chairman of Admissions Committee

LEON ROBERT LEZER, B.S., M.D., M.P.H.

Director of Health Studies

JAMES HENRY BATES, B.S., M.Ed.  Executive Assistant

CORNELIA JOSEPHINE BAYLIES, A.B.

Administrative Assistant

MRS. MARGARET M. HINMAN, B.S.

Administrative Assistant (Admissions)
STANDING COMMITTEES
Effective July 1, 1960

Admissions—Dean Wolf*; Drs. Pierce**; R. Amidon; Foley; Williams; Wallman.

Advancement—Dr. Pierce*; Executive Committee and appropriate Division Chairmen.

Intern—Dr. McKay* and appropriate staff.

Executive—Dean Wolf*; Drs. E. Amidon; Coon; Cunningham; Donaghy (1 yr.); Gallagher; Lezer; Mackay; Maeck; McKay; Melville; Newhall; Sichel; D. Smith; Soule; Van Buskirk.

Subcommittees of the Executive Committee:

Animal Facilities—Drs. Doremus*; Andrews; A. Chambers; Hanna; Jacobson; Macmillan; Tabakin.

Curriculum—Drs. Schumacher*; A. H. Chambers; Tabakin.

Library—Drs. Crowley*; Dunihue; Lepeschkin; Welsh. (Sichel; Withrow; Haviland, ex officio)

Postgraduate Education—Drs. French*; Jacobson; Lantman; Miller; Mr. Bates.

Student Program Planning—Drs. Andrews*; Bryant; Macmillan; Soule.

Third-Year Lecture Committee—Drs. S. Allen*; Kunin; Naeye; Suriano.

* Chairman
** Vice Chairman
HISTORY

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

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

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

In 1911 the faculty of the College of Medicine was reorganized and became an integral part of the University. In 1912 one year of college work was required for admission and the College of Medicine year was made equal in length to that of the academic college. Two full years of college work were required for admis-
sion in 1917. In 1920 women were admitted to the College of Medicine. In recent years all the students have completed four years of college prior to entrance into the College of Medicine.

In 1957 ground was broken for Phase I of a new College of Medicine building. Phase I was dedicated in September 1959. Phase II will be completed in the summer of 1962.

FORM OF BEQUESTS

"I (we) hereby give and bequeath unto the College of Medicine of the University of Vermont and State Agricultural College of Burlington, Vermont, the sum of dollars for the use of the College of Medicine."

If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College of Medicine, such use may be specified.
The College of Medicine requires that an applicant hold a bachelor’s degree, and that his four years of college work be taken in an institution listed among the “Accredited Institutions of Higher Education,” compiled and published by the National Committee of Regional Accrediting Agencies of the United States.

The College of Medicine requires one year each of:

- Biology
- English
- Fundamental mathematical principles, at the college level (will be required effective September 1961)*
- Physics (including laboratory)
- General Chemistry
- Organic Chemistry
- Quantitative Chemistry (a satisfactory one semester course) or Physical Chemistry, including laboratory work

The College strongly recommends that the applicant while in college study in depth one or more fields of interest to him.

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 contents. 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.

Students must complete satisfactorily all requirements for admission to the College of Medicine in any given year by July 1 preceding the September admission. Ordinarily courses taken in other than a liberal arts college will not meet our admission requirements.

Eligibility for admission to the College of Medicine of an applicant is determined by the Admissions Committee of the College of Medicine on the basis of the following:

1. The scholastic record of the applicant in his premedical work.
2. 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.

* This requirement may be waived in certain instances for students entering in September 1961.
3. 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.

A maximum of fifty students is admitted to the entering class. Preference for admission is according to the following priorities:

1. Qualified residents of Vermont.
2. Qualified residents of other New England states having contractual arrangements with the College of Medicine.
3. Qualified residents of other areas.
4. Sons and daughters of the alumni of the College of Medicine of the University of Vermont are given special consideration within the framework of the above policy.

Applications for admission to the class entering in September of any year will close January 1 preceding the September admission. Application blanks should be in by December 1 for early consideration.

An application fee of ten dollars, payable to The University of Vermont and State Agricultural College, must accompany all applications and is not refundable.

ENROLLMENT

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

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

Residents of those states having contractual arrangements with the University of Vermont College of Medicine must establish proof of residence prior to the date of registration.

ADMISSION OF STUDENTS TO ADVANCED STANDING

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

1. That the premedical and medical work be in accord with the courses required at this institution, and have been taken at an institution approved by the Council on Medical Education and Hospitals of the American Medical Association.
2. That the scholastic record is satisfactory.
3. That the statement of record shows no condition and that said statement be accompanied by a letter of honorable dismissal.

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

A personal interview is required of all applicants for admission by transfer to the College of Medicine. Preference will be given according to the policy for first-year students.

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

FEES AND EXPENSES

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>$ 10.00</td>
</tr>
<tr>
<td>Books and other supplies</td>
<td>$125 to $150+</td>
</tr>
<tr>
<td>Fee for late registration</td>
<td>6.00</td>
</tr>
<tr>
<td>Tuition Fee for each session for Vermont students and bona fide residents of states having contractual arrangements with the University of Vermont</td>
<td>550.00</td>
</tr>
<tr>
<td>Tuition Fee for other students</td>
<td>1,500.00</td>
</tr>
<tr>
<td>Microscope rental (required first and second years)</td>
<td>40.00</td>
</tr>
<tr>
<td>Locker Fee for first year</td>
<td>1.00</td>
</tr>
<tr>
<td>Locker Key Deposit—Paid on admission; refunded end of year</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Average Range

<table>
<thead>
<tr>
<th>Item</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room Rent</td>
<td>$400 to $500</td>
</tr>
<tr>
<td>Board</td>
<td>$600 to $700</td>
</tr>
</tbody>
</table>

Medical students may, by paying the student activity fee of $15.00, become entitled to the benefits students receive from payment of that fee.

Living accommodations may be obtained with the help of the Housing Bureau in Waterman Building. Occasionally a list of available rooms in the vicinity is posted on the bulletin board in the College of Medicine building. The Dean's Office does not maintain a housing bureau.

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

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

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

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% of the tuition is deducted for each week that has elapsed.

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 advisors and student members. Selection is based not only upon high academic records but also upon evidence of individual scholarship and promise for a medical career.

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

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

*Lamb Foundation Prizes.*—Prizes of $150, $100 and $50
will be offered during the year 1960-1961 by the Lamb Foundation to students in the College of Medicine. The awarding of these prizes is based upon essays submitted concerning the problems of the physician-patient relationship.

SCHOLARSHIPS AND LOAN FUNDS

A scholarship fund of three thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873. The income derived from the investment of this fund is given annually to a deserving student in the College of Medicine.

Needy Vermont residents are eligible for $200 state scholarships. Upon receipt of the scholarship, the student will be required to sign notes for each year of state scholarship assistance. These notes will be payable serially beginning five years after graduation. If not paid by this time, interest will begin. Interest will not accrue if the notes are timely paid. The notes can be cancelled by the recipient practicing in the State of Vermont for each year for which scholarship aid was received.

Small scholarships, as well as loan funds, are available for needy students.

A loan fund of four thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873. Students in the College of Medicine in need of financial assistance may apply for loans from this fund.

The Dr. H. C. Tinkham Scholarship Fund was established by the will of Dr. Tinkham, the income to be used for scholarships for deserving students in the College of Medicine.

The John W. and John Seeley Estabrook Scholarship Fund was established by the will of John W. Estabrook, the income to be used for scholarships for students in the College of Medicine from Rutland County, with preference given to students from the town of Brandon.

The Edith Blanche Kidder Scholarship Fund was established by the late Joseph W. Kidder. This is for students in the College of Medicine, preference being shown to legal residents of Barre, Vermont. The amount of each scholarship is determined annually by the income from the invested fund.

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

The Medical College Loan Fund is available for loans to students enrolled in the College of Medicine.
Student loan funds are available through the National Defense Education Act of 1958. For details, see the current issue of the University Bulletin.

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

The George W. Merck Memorial Loan Fund for interns and residents was established in 1959 by the Merck Company Foundation. It provides loan funds for selected graduates of this College of Medicine wherever they are in training, or to graduates of other medical schools who are in training at hospitals associated with this medical school. The Fund is administered by the Dean.

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

LECTURESHIPS

Lawrence Barnes Hayward Memorial Speakership in Medical Rehabilitation.

In 1956, through the generosity of Mrs. Fray N. Hayward of Burlington, a lectureship was established for the purpose of obtaining speakers in the field of medical rehabilitation.


In 1960 the Vermont Heart Association established this memorial lecture in honor of one of its founders and past president, Dr. Clarence H. Beecher. The lecture is given annually at the May Clinical Meeting.

Wayne Griffith Memorial Lecture.

In 1960 the Vermont Medical Society established a memorial lecture for Wayne Griffith, M.D., formerly of Chester, Vermont. The fund will be used to bring speakers on cancer and heart to the May Clinical Meeting each year.

REGULATIONS FOR COLLEGE OF MEDICINE STUDENTS

ATTENDANCE

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

b. Students must wait ten minutes for an instructor or lecturer who is tardy. In case of examination, students are expected to remain at least 30 minutes.
c. 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 work of each year is final, and students are advanced when they have completed satisfactorily the work assigned for the year.

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

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

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

e. Students who fail in less than 25 per cent of the major courses in the first, second, or third years may be re-examined in the subjects failed at the regular examination period preceding the opening of the next school year. The highest final grade allowed for a course passed on re-examination shall be 75 per cent.

f. A student who, upon re-examination in any subject, again fails will be dismissed from the College. Such student may, however, petition the faculty to repeat the year.

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

h. A student who has been a member of either the first, second, or third-year class for two school years, and has failed to fulfill the requirements for advancement, or a student who has been a member of the fourth-year class for two school years and
has failed to fulfill the requirements for graduation will not be enrolled again as a student of the College of Medicine.

i. A student who fails to present himself at the appointed hour for any examination at which he is due to appear will be treated as having taken the examination and failed to pass it, unless he is excused from such examination by the chairman of the department or division concerned.

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

k. Students shall not be apprised of their grades in any course or examination, nor of their exact standing in their class and they shall not have access to their grades from the files of the college or of the University.

l. Final written examination shall not be returned to students. If a student receives a failing grade in any final written examination or in any course, the final written examination shall be filed in the Dean's Office.

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

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

o. No student of the college, assigned to extra-mural duty, shall absent himself from such assignment except with permission of the Dean.

1st year: Rules regarding failures apply, except that the Committee on Advancement is empowered to review cases of failure and make such recommendations to the Dean and the Faculty as it may see fit.

2nd year: At the completion of the second year's work students may be required to take a comprehensive examination upon recommendation of a department chairman, subject to the approval of the Committee on Advancement and the Dean.

3rd year: The third-year students shall be judged on the basis of course work, present rules regarding failures to hold except that the Committee on Advancement is empowered to review cases of failure and make such recommendations to the Dean and Faculty as it may see fit.

4th year: Fourth-year students may be required to take a comprehensive examination upon recommendation of a department unless excused by the Dean of the College.
REQUIREMENTS 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.

The degree of Doctor of Medicine is granted by the Board of Trustees of the University of Vermont and State Agricultural College to candidates only upon the recommendation of the Committee on Advancement and the Faculty of the College of Medicine to the University Senate.

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

All candidates for degrees must be present at Commencement unless excused by the Dean of the College.

MEDICAL COLLEGE PROGRAM

The formal program of training in the College of Medicine consists of four years. During this period an attempt is made to teach the student the fundamental principles upon which he must continue to build all through life in order to keep himself informed of the most recent advances in the rapidly changing field of medicine. Specialized training in any area of medicine must come after graduation and may consist of from one to five years by means of internships, residences, or research.

Those students who show an interest in the basic sciences and a desire to take further work are encouraged to do so in order to prepare themselves more adequately for the practice of medicine or for a career in academic medicine. Fellowships are available for summer research work or a year's leave of absence for research work in the basic sciences and for advanced degrees in the basic sciences.

An experimental two-year integration program was begun during the year 1955-56 in an attempt to relate the work of the College of Arts and Sciences more closely to that of the College of Medicine and to make more gradual the transition to a much more specialized type of study.

GENERAL PLAN OF THE CURRICULUM

FIRST YEAR: Anatomy, physiology and biochemistry are integrated in such a fashion that topics are considered simultaneously
by all departments in so far as possible. Thus when the abdomen is being dissected, the physiology of the gastro-intestinal system and the biochemistry of digestion are being considered at the same time. The students are introduced to psychobiology and preventive medicine during the first year.

SECOND YEAR: The curriculum is divided into three parts and correlated in time.

Course A. Morphology, Physiology and Chemistry of the Abnormal, runs throughout the entire year and includes pharmacology, pathology, clinical pathology, medical microbiology, psychopathology, preventive medicine and surface anatomy.

Course B. Elicitation of Data, includes history taking and examination which are taught cooperatively by the various specialists under the general supervision of an internist. This is given in the second semester only.

Course C. Introduction to Clinical Medicine, consists of didactic lectures and case presentations covering elementary medicine, pediatrics, surgery, obstetrics, gynecology and oral medicine, and is given in the second semester.

The schedule varies from week to week because the subject material presented by the different departments is correlated.

THIRD AND FOURTH YEARS: The third and fourth years provide a continuing clinical clerkship under the direction of the major clinical departments. A one-and-a-half-month vacation is afforded during the summer at the end of the third year. The schedule provides for clerkship experience in general and specialty hospitals, and includes ambulatory patient services in the Family Care Unit, the outpatient departments of the general hospitals, and in the home. Up to three months of elective time is provided for the student to pursue in depth an area of his interest.

GRADUATE BASIC SCIENCE PROGRAM.

In the departments of Biochemistry, Pharmacology, and Physiology and Biophysics, faculty and staff permit a course of study towards the Ph.D. degree. It is possible to meet the requirements for both the M.D. and Ph.D. degrees in a minimum of six calendar years in the case of especially qualified students. The requirements for a Master's degree may be met by work in each of the basic science departments.

TEACHING FACILITIES

THE COLLEGE OF MEDICINE BUILDINGS

The activities of the College of Medicine take place in a number of buildings on the University of Vermont campus. The
Library, administrative offices, and laboratories of the Departments of Anatomy, Physiology and Biophysics, and Biochemistry are located in the original College of Medicine building.

Pharmacology occupies an adjacent structure. Part of the animal quarters are located in this area.

The Departments of Pathology, Medical Microbiology, and laboratories for clinical research are contained in Phase I of the new College of Medicine building which forms part of the eastern boundary of the University campus. Phase II will be completed late in 1962 and will provide additional research space for the Departments of Biochemistry, Medical Microbiology, Pharmacology and Animal Care. Ultimately all of the basic science facilities will be located here.

The Department of Preventive Medicine and the Family Care Unit occupy the Roberts House south of the campus.

HOSPITALS

THE MARY FLETCHER HOSPITAL. This general hospital has 260 beds and 36 bassinets. It has been associated with the College of Medicine as a teaching hospital since 1879, and treats all diseases without limitation. Most recent developments have been open-heart surgery and microsurgery. The hospital has a yearly average of approximately 68,394 patient days. At least two-thirds of the patients are available for teaching purposes through the use of free and part-pay beds and the use of private patients by attending staff men as members of the faculty of the College of Medicine. The hospital's facilities have been expanded almost continuously. Buildings to cost $2,700,000 are now under construction which will provide greatly expanded services and 75 additional beds. When these buildings are completed in 1961 the hospital will have 335 adult beds. The hospital is approved by the American Medical Association for intern training and for residencies in anesthesia, medicine, neurology, neurosurgery, obstetrics-gynecology, otolaryngology, pathology, pediatrics, radiology, surgery and urology.

Besides medical teaching, educational programs are conducted in nursing, x-ray technique, laboratory technology, hospital administration and physical therapy. Research is an important part of the hospital program.

THE DEGOESBRIAND MEMORIAL HOSPITAL. The DeGoesbriand Memorial Hospital is a modern and completely equipped general hospital and houses the Vermont Rehabilitation Center. An additional floor for clinical research purposes has recently been com-
completed, and an 80-bed long-term illness facility is presently under construction. The present capacity is 220 beds and 35 bassinets. When the present facility which is now under construction is completed, the total capacity will be 300 beds with 35 bassinets. All the clinical services are represented in the approximately 58,916 patient days. All cases, service and private, are used for teaching and medical students are under the supervision of the attending staff who are members of the faculty of the College of Medicine.

The DeGoesbriand Memorial Hospital is fully approved for intern training and has joint residency programs under the University of Vermont College of Medicine. These are approved in anesthesia, general practice, medicine, neurology, neurosurgery, obstetrics-gynecology, otolaryngology, pathology, pediatrics, radiology, surgery and urology.

Elective programs for fourth-year students permit research on special programs at the University and the Burlington hospitals, experience in other teaching centers or in community hospitals, with general practice preceptors, or in specialty hospitals.

AMBULATORY PATIENT AND HOME CARE FACILITIES

THE FAMILY CARE UNIT. The Family Care Unit is located in the Preventive Medicine Building at 232 South Willard Street (corner of Maple and South Willard Streets). It is a comprehensive medical care program with emphasis on general practice demonstration. Juniors and Seniors participate in the program throughout the year under the supervision of the Department of Preventive Medicine. In pairs of a junior and a senior, health supervision and maintenance is provided to families. During the past academic year there were 1,500 visits made. This includes house calls and office visits.

DURFEE MEMORIAL CLINIC. The Clinic is located at the Mary Fletcher Hospital. Approximately 10,782 free and part-pay patient visits are referred by the Family Care Unit and practicing physicians and studied in general and specialty clinics under the supervision of medical college staff specialists.

DEGOESBRIAND MEMORIAL OUTPATIENT DEPARTMENT. Four thousand five hundred five visits to general and specialty clinics are made annually. These clinics are supervised by University of Vermont staff members.
The Medical Library is located on the second floor of the College of Medicine Building. The collection, totalling 18,500 volumes, consists of textbooks, monographs and periodicals in the field of the medical sciences. Approximately 650 periodical subscriptions are received currently.

Instruction in the use of the library and in the preparation of medical bibliography is available for students and staff in the College.

The library has facilities for microfilm projection and can obtain microfilms of material which it does not possess. Photostats also may be ordered. Original material may be obtained through inter-library loan.

Students and staff have free access to the University Library's collection to be located shortly in a new building.

MEDICAL MUSEUM

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

STATE LABORATORY FACILITIES

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

DIVISION OF PHOTOGRAPHY

The division of photography has photographic equipment and laboratories at the College of Medicine for photomicrographic and other types of photographic work. This division has a full-time staff whose services are available to all departments of the College of Medicine and the local hospitals.
# FIRST YEAR SCHEDULE
## 1960-61

<table>
<thead>
<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:50</td>
<td>Biochemistry</td>
<td>Biochemistry (first 9 wks.)</td>
<td>Biochemistry</td>
<td>Psychobiology**</td>
<td>Preventive Medicine Sessions**</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>9:00-9:50</td>
<td></td>
<td>Anatomy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00-10:50</td>
<td>Anatomy*</td>
<td>Anatomy</td>
<td>Physiology</td>
<td>Physiology</td>
<td>Physiology</td>
<td>Anatomy</td>
</tr>
<tr>
<td>11:00-11:50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00-12:50</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1:00-1:50</td>
<td>Anatomy</td>
<td>Free</td>
<td>Physiology</td>
<td></td>
<td>Physiology</td>
<td>Anatomy</td>
</tr>
<tr>
<td>2:00-2:50</td>
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<td></td>
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<tr>
<td>3:00-3:50</td>
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<tr>
<td>4:00-4:50</td>
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</tbody>
</table>


**Meet alternate weeks.
SECOND YEAR SCHEDULE
First Three-fifths of Year 1960-61

<table>
<thead>
<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:50</td>
<td>Pathology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00-9:50</td>
<td>Pathology</td>
<td>Medical Microbiology</td>
<td></td>
<td>Pathology</td>
<td>Pathology</td>
<td></td>
</tr>
<tr>
<td>10:00-10:50</td>
<td></td>
<td></td>
<td></td>
<td>Pathology</td>
<td>Pathology</td>
<td></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td>Pharmacology</td>
<td>Pharmacology</td>
<td>Course C: Introduction</td>
<td>Free</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>to Clinical Medicine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00-1:50</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00-2:50</td>
<td>Pharmacology (sec. b)</td>
<td>Pharmacology (sec. b)</td>
<td>Pharmacology</td>
<td>Pharmacology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00-3:50</td>
<td></td>
<td></td>
<td>Medical Microbiology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00-4:50</td>
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</tr>
</tbody>
</table>

There are some variations in this schedule from week to week.
# SECOND YEAR SCHEDULE

## Last Two-fifths of Year 1960-61

<table>
<thead>
<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:50</td>
<td><strong>Course A:</strong> Pathology</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>9:00-9:50</td>
<td><strong>Course A:</strong> Pathology</td>
<td><strong>Course B:</strong> Elicitation of Data\ Neurological Diagnosis</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course B:</strong> Elicitation of Data\ History Taking</td>
<td><strong>Course A:</strong> Public Health</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>10:00-10:50</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course A:</strong> Public Health</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course B:</strong> Elicitation of Data\ Radiological Diag.</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>11:00-11:50</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course B:</strong> Elicitation of Data\ Radiological Diag.</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>1:00-1:50</td>
<td><strong>Course B:</strong> Elicitation of Data\ Neurological Diagnosis</td>
<td><strong>Course A:</strong> Pathology</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course A:</strong> Public Health</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>2:00-2:50</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course A:</strong> Pathology</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>3:00-3:50</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course A:</strong> Pathology</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course A:</strong> Public Health</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>4:00-4:50</td>
<td><strong>Course A:</strong> Pathology</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course A:</strong> Pathology</td>
<td><strong>Course B:</strong> Elicitation of Data\ Physical Diagnosis</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
<td><strong>Course C:</strong> Introduction to Clinical Medicine</td>
</tr>
</tbody>
</table>

There are some variations in this schedule from week to week.
# THIRD YEAR SCHEDULE

**1960-61**

**Surgical Trimester (12 weeks)**

(Other trimesters are: Medicine and Pediatrics-Obstetrics-Surgical Specialties)

<table>
<thead>
<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-9:00</td>
<td>Tutor</td>
<td>Genito-urinary Conference</td>
<td>Tutor</td>
<td>Fracture Conference</td>
<td>Tutor</td>
<td>Surgical Conference</td>
</tr>
<tr>
<td>9:00-10:00</td>
<td>Neurosurgical Rounds</td>
<td>Orthopedic Rounds</td>
<td>Individual work with patients</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>One student weekly to x-ray</td>
<td>ENT conference</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Grand Rounds</td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Special lecture</td>
<td>Chest Conference</td>
<td>Pathological-Surgery Conference</td>
<td>Anesthesia</td>
<td>Urology</td>
<td>Orthopedic conference</td>
</tr>
<tr>
<td>12:00-1:00</td>
<td>Surgical Rounds</td>
<td>Cellulogy</td>
<td>Surgical Rounds</td>
<td>Oncology</td>
<td>Thoracic Surgery</td>
<td></td>
</tr>
<tr>
<td>1:00-2:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00-3:00</td>
<td>Otolaryngology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00-4:00</td>
<td>Chest Conference</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00-5:00</td>
<td>x-ray conference</td>
<td>Surgical Rounds</td>
<td>Oncology</td>
<td>Surgical Rounds</td>
<td>Surgical Rounds</td>
<td></td>
</tr>
</tbody>
</table>

All hospital rounds and conferences not listed will be available for student attendance. Students spend unassigned time on the wards of the hospitals as clinical clerks. During the year, students will participate in the Family Care Unit program.
FOURTH YEAR SCHEDULE
1960-61
Detail of Rotation

<table>
<thead>
<tr>
<th>1st Fifth</th>
<th>2nd Fifth</th>
<th>3rd Fifth</th>
<th>4th Fifth</th>
<th>5th Fifth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicine</td>
<td>Pediatrics</td>
<td>Psychiatry</td>
<td>Surgery</td>
<td>Obstetrics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Elective</td>
</tr>
</tbody>
</table>
THE UNIVERSITY OF VERMONT

SUMMARY OF STUDIES 1960-1961

CLASSROOM AND LABORATORY HOURS

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy</td>
<td>563</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>214</td>
</tr>
<tr>
<td>Physiology</td>
<td>248</td>
</tr>
<tr>
<td>Preventive Medicine</td>
<td>10</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>32</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td><strong>1,072</strong></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course A</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy</td>
<td>30</td>
<td>30</td>
<td>60</td>
</tr>
<tr>
<td>Medical Microbiology</td>
<td>165</td>
<td>165</td>
<td>330</td>
</tr>
<tr>
<td>Pathology and Clinical Pathology</td>
<td>222</td>
<td>188</td>
<td>410</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>84</td>
<td>80</td>
<td>164</td>
</tr>
<tr>
<td>Preventive Medicine</td>
<td>31</td>
<td>31</td>
<td>62</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>16</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td><strong>501</strong></td>
<td><strong>315</strong></td>
<td><strong>816</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course B</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elicitation of Data</td>
<td>141</td>
<td>141</td>
<td>282</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course C</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Clinical Medicine</td>
<td>95</td>
<td>95</td>
<td>190</td>
</tr>
<tr>
<td><strong>Total hours for year</strong></td>
<td><strong>501</strong></td>
<td><strong>551</strong></td>
<td><strong>1,052</strong></td>
</tr>
</tbody>
</table>

CLERKSHIPS

Third Year

The year consists of 36 weeks devoted predominantly to clinical work on the ward services of the two major teaching hospitals in Burlington. The work is divided into periods of clinical clerkships as follows: Medicine (12 weeks), Pediatrics (4 weeks), Surgery (12 weeks), Obstetrics and Gynecology (4 weeks), Surgical Specialties (4 weeks). The approximate total number of hours is 1,584 (36 weeks x 44 hours).

Fourth Year

This year consists of 40 weeks divided into 5 8-week periods, devoted entirely to clinical work. This takes place in outpatient departments, on a home care service, and on the wards of general and specialty hospitals. The approximate total hours is 1,760 (40 weeks x 44 hours).
ORGANIZATIONS

STUDENT COUNCIL

Elected representatives from each class form a student council which meets with the Dean 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.

MEDICAL FRATERNITIES AND SOCIETIES

Beta Pi Delta Mu Chapter of Nu Sigma Nu
(Founded 1880)

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

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

Phi Delta Epsilon

THE OSLER CLINICAL SOCIETY

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

STUDENT AMERICAN MEDICAL ASSOCIATION

A chapter of the Student American Medical Association was established in 1959.

OFFICERS OF THE U. V. M. MEDICAL ALUMNI ASSOCIATION
1960-61

President—DR. ALBERT E. BARCOMB, '29, Rochester, N. H.
Vice-President—DR. JOHN C. CUNNINGHAM, '35, Burlington
Secretary-Treasurer—DR. RALPH D. SUSSMAN, '38, Burlington
Executive Committee—DR. ARTHUR A. GLADSTONE, '31, Chairman, Burlington; DR. A. BRADLEY SOULE, JR., '28, Burlington; DR. OLIVER R. EASTMAN, '38, Burlington
Obituary Committee—DR. WILLIAM T. FAGAN, JR., '48, Chairman, Burlington; DR. CHESTER A. NEWHALL, '28, Burlington; DR. CHARLES B. RUST, '39, Burlington
THE DEPARTMENTS IN THE
COLLEGE OF MEDICINE

THE DEPARTMENT OF ANATOMY

Thayer Professor of Anatomy: NEWHALL (Chairman)
Professors of Anatomy: DUNIHUE, STULTZ
Assistant Professor of Anatomy: W. CHAMBERS

This Department is concerned with teaching the morphology of the human body correlated with function.

First year courses for medical students are given in histology (including embryology), gross anatomy and neuro-anatomy. The program provides for the microscopic study of tissues and for the gross study and identification of structures by means of dissections and the use of cross sections. In the second year, a two-term course is given in surface and radiological anatomy. The facilities of the laboratory are available to physicians and nurses.

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

Graduate Courses

Prerequisites: Permission of the Department Chairman.

201 Medical Histology. The microscopic study of cells, tissues and organs using routine techniques. Lectures and laboratory, 140 hours. Six credit hours. Drs. Dunihue and Chambers.

211-212 Gross Anatomy. Study of the gross structure of the human body by means of general dissection, cross-sections and special dissections. Lectures and laboratory, 320 hours. Fourteen credit hours. Drs. Newhall and Stultz.

222 Neuroanatomy. Gross and microscopic study of the central nervous system, by means of dissection of the brain, accompanied by microscopic examination of stained sections and reconstructions of the principal nervous pathways. Lectures and laboratory, 100 hours, last quarter of year. Four credit hours. Drs. Chambers and Dunihue.

231 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: 211-212. Lectures and laboratory for two terms. Two credit hours. Dr. Stultz.
301-302 Special 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: 201. Conferences and laboratory. Hours and credit as arranged. Drs. Dunihue and Chambers.

305-306 Special Problems 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 U. V. M.) and in particular cases, in Experimental Embryology (as Zoology course 222, U. V. M.) Hours and credit as arranged. Dr. Stultz.

311-312 Special Problems in Gross Anatomy. Special 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: 211-212. Laboratory, special readings and discussions. Hours and credit as arranged. Drs. Stultz and Newhall.

321-322 Special Problems in Neuro-anatomy. The study of some particular phase of Neuro-anatomy, as selected by mutual consent, including minor investigations designed to serve as an introduction to research. Prerequisite: 222 or its equivalent. Readings, conferences and laboratory work. Hours and credit as arranged. Drs. Chambers and Dunihue.

381, 382, 383, 384 Seminars in Anatomy. 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. The Staff.

391, 392, 393, 394 Thesis Research. 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 UNIVERSITY OF VERMONT

THE DEPARTMENT OF BIOCHEMISTRY

Professors of Biochemistry:  MELVILLE (Chairman), ROBERTSON (also Associate Professor of Experimental Medicine).

Associate Professors of Biochemistry:  GJESSING, LAMDEN, SCHEIN.

Associate Professor of Clinical Biochemistry:  SIMS (also Associate Professor of Medicine).

Instructors in Clinical Biochemistry:  KUNIN (also Instructor in Medicine), LAGRANGE.

The primary aim of the Department is to provide a sound biochemical foundation for the study of medicine.

Medical biochemistry is taught throughout the first year by means of lectures, conferences, seminars and laboratory. The work is integrated with that in physiology and anatomy so that, insofar as possible, functional systems are considered concurrently by the three disciplines. Exercises are conducted upon animal and man whenever feasible. Members of the Department give lectures in other departments when the subject matter is related to biochemistry.

Every summer selected medical students are offered research fellowships in biochemistry for 8 to 10 weeks.

A program leading to the Doctor of Philosophy degree is offered jointly by the Departments of Biochemistry and Agricultural Biochemistry. The Department of Biochemistry also offers a graduate program leading to the Master of Science degree.

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

Graduate training includes the following:

Graduate Courses

Prerequisite—Permission of the Department Chairman.

201-202. Medical Biochemistry

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

Lectures and conferences. 50 hours, first semester; 50 hours, second semester; laboratory, 60 hours, each semester. 5 credit hours each semester.
301. **Enzymology**

The general principles of enzyme chemistry are studied using specific enzymes as examples. Topics considered will include isolation, purification, and characterization of enzymes; kinetics, specificity, inhibitors, enzyme-substrate interactions, the nature of the active site, induction and adaptation. Laboratory experiments are chosen to demonstrate the subject matter and to acquaint the student with a wide variety of techniques used in enzymology.

Lectures, seminars and laboratory. Open to all properly qualified students. **One semester, 5 credit hours.**

311-312. **Biochemical Preparations**

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

Laboratory, 4 hours per week, 15 or 30 weeks. Offered either first or second semester and in summer. Open to all properly qualified students. **2 credit hours per semester.**

351. **Intermediary Metabolism**

Lectures and seminars dealing with current concepts of the internal transformations of amino acids, carbohydrates and lipids. Methods of investigating intermediary metabolism are evaluated.

Among the topics discussed are: dynamic state of the body constituents, application of isotopes to the study of metabolic pathways, and the integration of the metabolism of the proteins, carbohydrates and lipids.

This course is presented in cooperation with the Division of Experimental Medicine. Open to all properly qualified students. Lectures and seminars. **2 x 1.5 hours per week. 1st semester. 3 credit hours.**

361. **Vitamins in Metabolism**

A study of the absorption, availability and biosynthesis of vitamins, the role of vitamins in intermediary metabolism, vitamin interrelationships, vitamin-hormone interrelationships, analogs and antivitamins, avitaminoses in man and animal, and vitamin requirements.
Laboratory experiments are designed to give experience in chemical, biological and microbiological assay methods.

Lectures and seminars, $2 \times 1.5$ hours per week.

Laboratory, $1 \times 4$ hours per week. 1st semester. Open to all properly qualified students. 5 credit hours.

371. Physical Biochemistry

Topics to be discussed will be concerned largely with proteins and the methods and tools used in their investigation. The course will include protein interaction, solubility and fractionation, electrophoresis, sedimentation, phase rule study, diffusion, viscosity and spectrophotometry. In addition, recent methods for analysis of proteins such as column and paper chromatography and counter current distribution will be discussed.

Lectures and seminars $2 \times 1$ hour per week. Open to all properly qualified students. 2 credit hours.

381-384; 481-484. Seminar

This course is designed to review recent developments and current literature in the various fields of Biochemistry and is presented in cooperation with the Department of Medicine.

$1 \times 1$ hours per week. 2nd semester. Hours to be arranged. Open to all properly qualified students. 1 credit hour.

391-394; 491-494. Thesis Research

Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Master's or Doctor's thesis.

Prerequisite—Bachelor's degree in Chemistry and departmental consent. Credit as arranged.
THE DEPARTMENT OF MEDICAL MICROBIOLOGY

Professor of Medical Microbiology: GALLAGHER (Chairman)
Assistant Professors of Medical Microbiology: ELLNER, SURIANO

The primary objective of the course in Medical Microbiology is to impart to the student an understanding of the fundamentals of microbiology. Emphasis is placed on such aspects of the subject as modes of transmission, methods of disease production, the immune response of the body and epidemiology.

The course is given during the first three-fifths of the sophomore year. After a brief survey of the general biological characteristics of bacteria and of essential laboratory technics, a detailed consideration is then given to the general principles of infection and resistance. The remainder of the course is devoted to studies of the various groups of infectious agents. Laboratory exercises are designed to reinforce the didactic material by observation and handling of the individual species of bacteria, fungi and viruses. Certain basic serologic technics and the separation and identification of bacteria from "unknown" mixtures further round out the laboratory sessions.

Other teaching activities of the department include graduate study leading to the degree Master of Science. Members of the department participate in clinical conferences on infectious disease problems.

Formal graduate study in bacteriology consists of the following courses:

Graduate Courses

Prerequisite—permission of the Department Chairman.

201. Medical Microbiology. First semester, 7 credit hours.

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

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

302. Special Problems in Immunology. Minor investigations in immunology and serology designed to serve as an introduction to research.
Prerequisite—Medical microbiology or its equivalent. 2 credit hours.

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

391, 392, 393, 394. Thesis Research.

Investigation of a research topic under the direction of an assigned staff member, designed to culminate in an acceptable Master’s thesis.

Prerequisite—Courses 301 and 302. Credit as arranged.
A department of medicine must accept the general opinion of medical educators, that medicine constitutes the central core of teaching, especially in the last two years. From this core the specialties grow. With this concept in mind, the Department has been built on a broad base. Members of the Department are highly trained in the field of internal medicine, and most have additional training in some specific aspect of this field. Many of the members maintain intimate contact with one of the basic science departments. This arrangement tends to bridge the gap between preclinical and clinical instruction.

A well-balanced department must teach, do research, and care for patients, resulting in an understanding of the disease process, its pathology, patho-physiology and biochemistry. This information must be transferred as completely and accurately as possible to the student. The information, when applied to a given patient, should indicate the proper steps for treatment and thus result in the proper care of the patient, which is the ultimate goal.

The staff of the Department numbers thirty-six. Staff members are carefully chosen and are certified by their respective Boards. The Junior men are either members of, or eligible for their Boards.
Students begin their intimate contact with members of the Department in their second year. They are given an introductory course in clinical medicine in conjunction with the teaching of history-taking and physical diagnosis. Many hours are spent with patients under the close supervision of members of the Department.

During the third year students serve as clinical clerks. Most of the teaching during this period is at the bedside but supplemented by conferences and lectures. An opportunity for original investigation is offered all students.

The fourth-year students are taught through the medium of outpatient clinics, sanatoria, and the patients' homes. The weekly departmental conferences are attended not only by students, house staff, and members of the Department, but by many physicians throughout the state.

DIVISION OF DERMATOLOGY

Professor of Dermatology: DALY (Chairman).
Associate Professor of Clinical Dermatology: FLOWER.

Case demonstrations of cutaneous disease, seminars, informal discussions and demonstrations are employed to present an outline of the field of dermatology to third-year students. Such instruction is carried out in groups of about fifteen during the trimester devoted to Medicine.

Fourth-year students receive practical instruction with patients in the outpatient clinics of the hospitals. Consultation service to the hospitals is provided in dermatology and syphilology and limited instruction of nursing students is conducted.

DIVISION OF EXPERIMENTAL MEDICINE

Professor of Experimental Medicine: LEPESCHKIN.
Associate Professor of Experimental Medicine: ROBERTSON (also Professor of Biochemistry).

Assistant Professors of Experimental Medicine: TOMASI (Chairman), BRYANT, SURAWICZ (also Instructor in Clinical Medicine).

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

Aided by grants from the U. S. Public Health Service, the Arthritis and Rheumatism Foundation, the American Heart Association, the Vermont Heart Association, the American Medical Association, and the U. S. Navy, research problems are being studied which involve derangements of the adrenergic-cholinergic balance in myocardial metabolism; the role of physical activity and inactivity respectively in cardiac health; protection of the heart muscle by drugs against degeneration; cardiotoxic effects of chronic sympathetic stimulation; correlation of the electrocardiogram, action potential and contractility of the heart in experimental animals; study of the role of ascorbic acid in the synthesis of collagen and mucopolysaccharides; hormonal effects on connective tissue; the chemical structure of abnormal serum protein and the carbohydrate metabolism of normal and malignant tissue.

The staff is comprised of four internists, two of whom are certified by the American Board of Internal Medicine, and an electrocardiologist. Two staff members are authors of books related to their specialties. An associate professor who has a joint appointment with the Department of Biochemistry and an assistant professor who is also an instructor in medicine pursue active research and teaching programs.

A library of cardiological literature (14 foreign journals and more than 15,000 reprints) is maintained by the Division. New spacious research laboratories for the clinical Cardiovascular Research Unit of the Division at the DeGoesbriand Memorial Hospital were opened in August 1959, with up-to-date equipment.

New laboratories for biochemical research are located in the Medical Alumni Building.

Teaching of undergraduate students includes lectures, ward rounds, demonstration of electrocardiograms and phonocardiograms. In addition, the staff participates in clinical, clinico-pathological and correlation conferences, and arranges special courses and international symposia for graduates in cardiology and endocrinology.
The primary function of the Division is to provide instruction to undergraduate medical students in the field of diseases of the nervous system. The Division of Neurology also carries on the training program for graduate physicians appointed to the hospital Residency in Neurology.

The undergraduate teaching program takes place in the second, third and fourth years. During the second year, the emphasis is on the techniques of examination, the common methods of eliciting and analyzing data, and training in neurological diagnosis. Didactic lectures are given, including a brief review of basic neuro-anatomic and neurophysiologic concepts, and demonstrations provided, to permit better understanding of and guidance in the carrying out of the neurological examination. Opportunity is provided to small groups of students for performance of complete neurological examinations on each other and on patients with nervous system disease.

During the third year lectures provide broad orientation in the field of nervous system disease. No attempt is made to present didactically a series of individual disease syndromes. 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 the students at the regular weekly neurological conference held for clinical clerks on the floors of either the Mary Fletcher or DeGoesbriand Memorial Hospitals.

During the fourth year, instruction in neurology is confined essentially to participation in the work of the Neurology Out-patient Clinics. Small groups of students are assigned to the Clinics, which meet once a week, and students perform complete neurological examinations on new patients. At this time the student is expected to record his complete diagnostic formulation and plan of management. The work is closely supervised and checked. One-month electives for clinical work in neurology on the hospital wards are available to fourth-year students.
Interns obtain training by rotation through the neurological services at the Mary Fletcher and the DeGoesbriand Memorial Hospitals. Rounds and conferences take place, at which selected diseases of the nervous system are presented. The Resident staff in Neurology is assigned to both hospitals and assists in the instruction of third and fourth year students.

The staff consists of one full-time and four part-time clinical teachers, and three resident neurologists. Activities of the staff, in addition to teaching and research, consist of talks before hospital staff groups and the presentation of papers at state, regional, or national society meetings.

Collaboration in research and neurologic training of the staff of the Vermont State Hospital at Waterbury is provided through this Division. The staff participates in the clinics sponsored by the Vermont Association of the Crippled, including Speech and Hearing Clinics and Cerebral Palsy Clinics. Members of the staff function on the medical advisory boards and committees of regional and national voluntary medical societies and serve as neurological consultants to various hospitals and agencies. Lectures are given to three schools of nursing.

DIVISION OF PSYCHIATRY

Professor of Psychiatry: Crittick (Chairman).
Associate Professor of Clinical Psychiatry: Young.
Assistant Professors of Clinical Psychiatry:
Instructors in Clinical Psychiatry:
Instructor in Social Psychiatry:
Instructor in Clinical Psychology:
Clinical Associate in Psychiatry:

BRIDGES, STEPHENSON, COHEN;
CARON, FOREST, GRANT, HUESSY, MARSHALL;
DEANE;
ELDRIDGE;
TOMPKINS.

This Division provides the undergraduate student with an understanding of human behavior and reactions to various life situations which can be applied to normal people, as well as to those who may be mentally or physically sick. Close cooperation with the other departments of the College of Medicine characterizes the work of the Division.

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

The chairman is the Director of the Vermont State Hospital at Waterbury.

The teaching program consists of courses in each of the four years. The first-year course considers problems of personality development, psychobiological relationships and mental mechanisms. The discussion method based on moving pictures which illustrate the problems under consideration is used.

The second-year course concerns itself with the application of the understanding of personality problems as they occur in patients suffering physical and mental disorders. Attention is given to the elicitation of information from the patient in order to gain an understanding of him as a person.

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

During the fourth year, the students serve as clinical clerks at the Vermont State Hospital or the Brattleboro Retreat. The fourth-year students also attend conferences concerned with patients who present psychiatric problems while in the Mary Fletcher and DeGoesbriand Memorial Hospitals.

A one-year residency in psychiatry at the Vermont State Hospital is approved by the American Medical Association and the American Board of Psychiatry and Neurology. This training program is conducted in cooperation with the Mary Fletcher Hospital and the faculty.
THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Professor of Obstetrics and Gynecology: MAECK (Chairman).
Associate Professors of Obstetrics and Gynecology: EASTMAN, SLAVIN.
Assistant Professor of Obstetrics and Gynecology: GRAY.
Assistant Professor of Gynecology: MCSWEENEY.
Assistant Professors of Clinical Obstetrics and Gynecology:
BOARDMAN, B. CLARK, DURFEE.

Instructors in Clinical Obstetrics and Gynecology:
CANNON, H. PRATT, TABER, W. THABAULT.

The Department of Obstetrics and Gynecology endeavors to instill in the student an appreciation of the art and an understanding of the basic science and principles of obstetrics and gynecology. The curriculum is based on the principle of developing within the student the abilities needed to practice obstetrics and gynecology as it applies to the family physician. In addition to the fundamentals, a thorough knowledge of the complications and emergencies, both surgical and medical, is stressed, so that these conditions can be recognized and intelligently handled. This implies a recognition of an individual's own limitations. Advanced training for those who meet the requirements is available in an approved four-year residency program designed to qualify a physician for examination by the American Board of Obstetrics and Gynecology.

The faculty of this Department is made up of well-trained physicians who are certified by the American Board of Obstetrics and Gynecology, or who are qualified for certification. A growing number of full-time faculty members are available for teaching and research.

As in other departments, clinical and basic research is stressed and encouraged. An active obstetrics-gynecology laboratory is functioning in the medical school. The teaching-research staff is actively investigating basic problems in toxemia of pregnancy and related electrolyte and hormonal factors. The most modern techniques, using radioactive substances, are used under grants from the National Institutes of Health and other sources. Other studies relating to female cancer, intra-uterine fetal electrocardiography and electroencephalography, and various biochemical studies are in progress.

Members of the faculty work in close cooperation with and
serve as consultants to the State Department of Health. All Faculty members are available for consultant service to physicians throughout the State at any time.

In addition to the facilities in the medical school, full use is made of the laboratory and clinical facilities of the Mary Fletcher Hospital, the DeGoesbriand Memorial Hospital, the Elizabeth Lund Home for unwed mothers, and the Vermont State Hospital. The attending staffs of these institutions are members of the Faculty of the College of Medicine.

The subject of obstetrics and gynecology is progressively presented to the medical student throughout the four years of medical school. In the freshman year, the Departments of Anatomy, Physiology, Pathology, Biochemistry, and so forth, present the basic background upon which the total course is developed. In the second semester of the sophomore year, correlated didactic lectures are presented by the clinical staff, bridging the gap from laboratory to the patient. More advanced instruction in fundamental and clinical obstetrics and gynecology is presented in the third and fourth years, when the student deals directly with patient material and gradually assumes responsibility. Class exercises gradually evolve into individual teaching experiences and practical applications. Considerable delivery room and operating room experience is gained by observation in the third year, and by actual application (or actual practice) in the fourth year. Additional experience is available for the interested student in the form of electives in the senior year and special research problems during the "off summers." Occasional students are allowed extra experience in larger metropolitan hospitals. Regularly scheduled rounds, tutorial sessions, conferences, seminars, journal clubs and outpatient clinics play an important part in teaching.

The hospital interns, the residents and the entire faculty take part in the education of the student. The student is made to feel that he may take any problem to a member of the faculty for discussion and constructive criticism.

Examinations are held at the termination of each major period of instruction. The examinations may be oral or written, or both.

The residency program in obstetrics and gynecology consists of four years of intensive training. Three years are devoted to clinical obstetrics and gynecology, as required by the American
Board of Obstetrics and Gynecology. An additional six months are spent in pathology, as assistant resident, and additional time in the fields of general surgery, urology and internal medicine with emphasis on metabolic diseases and endocrinology. Residents who qualify may obtain part of their obstetrical training by arrangement with such institutions as the Boston Lying-In Hospital, the Boston City Hospital, and so forth. Additional time is encouraged in the form of a fellowship for teaching and formal research.

THE DEPARTMENT OF OPHTHALMOLOGY AND OTOLARYNGOLOGY

Shipman Professor of Ophthalmology: Cunningham (Chairman).
Assistant Professor of Ophthalmology: Twitchell.
Clinical Associate in Ophthalmology: Irwin.

DIVISION OF OTOLARYNGOLOGY

Associate Professor of Otolaryngology: R. Morrow (Chairman).
Assistant Professor of Clinical Otolaryngology: Reed.
Instructor in Clinical Otolaryngology: Heisbe.
Instructor in Audiology: V. Falck.

Teaching of all the aspects of ophthalmology and otolaryngology to undergraduate students is the primary aim of this Department. In addition, the staff participates in the activities of the Vermont Association for the Crippled and the Divisions of the Blind and Vocational Rehabilitation of the State Health Department.

Clinics are maintained at the Mary Fletcher and DeGoesbriand Hospitals. Consultation duties are performed at hospitals in neighboring communities of Vermont and New York.

Ophthalmology and otolaryngology are taught in the second, third and fourth years by lectures, rounds, patient conferences and clinics.

A residency in Otolaryngology is maintained in which is offered a program of clinical training in all phases of this specialty, including broncho-esophagology and plastic and tumor surgery of this region.
The University of Vermont

The Department of Pathology and Oncology

Professor of Pathology: COON (Chairman)
Associate Professors of Pathology: ANDREWS, CROWLEY, KORSON, STARK.
Assistant Professors of Pathology: BUTFLES, KUSSEW, LUGINBUHL, NAEGE, WOODRUFF.
Assistant Professor of Medical Technology: MAXSON.
Instructor in Pathology: TRAINER.
Instructor in Medical Technology: BREEN.

The interests and responsibilities of the Pathology staff include teaching, research, and the practice of both anatomical and clinical pathology in the affiliated teaching hospitals. The diversity of interest and variety of responsibility within the staff, as 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 formal instruction for second-year students, with emphasis on the correlation of functional and structural changes, is arbitrarily divided into the study of general pathology which includes the processes of injury, inflammation, repair, neoplasia, etc., and the study of special pathology in which diseases of the various organ systems are considered. In addition to the loan slide collection, extensive use is made of visual aids in the classroom and laboratory work. Study of fresh gross material from the teaching hospitals, attendance at autopsies, and use of museum specimens are integral parts of the course work.

Instruction in clinical pathology is closely correlated with work in general and special pathology. The clinical pathology course 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 obtained with other clinical findings. Hematology and parasitology are introduced in this phase of the course, as are techniques for examination of urine, gastric contents, cerebro-spinal fluid, and other body fluids.

The teaching activities of the Department continue into the clinical years of the undergraduate curriculum as well as into the residency years. Students assigned to the various clinical services of the teaching hospitals meet at regular intervals with members of the Pathology Department for specialized instruction in conjunction with their clinical assignments. Clinico-pathological
conferences are conducted twice monthly at the teaching hospitals. Complete residency training in anatomic and clinical pathology approved by the American Board of Pathology is offered by the Department in conjunction with its affiliated teaching hospitals. Residents are encouraged to engage in research and to participate actively in the teaching programs.

Graduate Courses:

Prerequisite—Permission of Department Chairman.

201. Histochemistry.
A survey of techniques used for chemical identification of cellular and tissue components, including discussion of the underlying theories. Conducted as a weekly seminar with laboratory hours to be arranged. Given either semester, but not both. Prerequisites: Acceptable course in cell structure (e.g., histology, cytology, etc.) and organic chemistry. Biochemistry recommended. Credit hours to be 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, 110 hours. Laboratory: total for year, 195 hours. 13 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.

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

Professor of Pediatrics: MCKAY (Chairman).
Associate Professors of Clinical Pediatrics:
P. CLARK, SUSSMAN.
Assistant Professor of Pediatrics:
*LUCEY.
Instructor in Pediatrics:
CHERRY.
Instructors in Clinical Pediatrics:
McKee, D. MORROW, PAXSON, WORTHINGTON.

The staff consists of two full-time and six part-time clinical teachers, and three resident physicians.

Orientation lectures are given during the latter part of the second year. Each student has a four-week introductory clinical clerkship during the third year and another four-week clinical clerkship with more responsibility during the fourth year. During both clinical years particular emphasis is put on the psychologic aspects of pediatrics and on doctor-child-parent relationships. Additional pediatric experience is gained through participation in a home care program, preceptorship with general practitioners in rural areas, if elected, and clerkships in a selected community hospital. The Department takes the responsibility for pediatric training of rotating interns and pediatric residents in the Burlington hospitals.

THE DEPARTMENT OF PHARMACOLOGY

Professor of Pharmacology: D. SMITH (Chairman).
Associate Professors of Pharmacology: HANNA, MACMILLAN.
Assistant Professor of Pharmacology: WILLIAMS.
Assistant Professor of Clinical Pharmacology: MACDONALD.

The pharmacology course for undergraduate medical students is taught in correlation with the course sequence of the Departments of Pathology and Bacteriology. 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 pharmaco-dynamics are designed to emphasize accurate observation, careful recording, and biological variations in drug action. Prescription writing and compounding are discussed by pharmacists.

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

Graduate training includes the following:

Graduate Courses
Prerequisite—Permission of the Department Chairman.
301-302. 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, 84 hours; laboratory, 80 hours, 8 credit hours.
311, 312. *Pharmacological Techniques*

Demonstration of and laboratory exercises in selected procedures of pharmacological research with special emphasis upon the cardiovascular system and neuropharmacology.

*Laboratory, 4 hours per week, 15 or 30 weeks. Offered either first or second semester and in summer. Prerequisites: Physiology and Biophysics 201-202 or Pharmacology 201-202. 2 credit hours per semester.*

320. *Drug Metabolism*

A study of how absorption, distribution, excretion and metabolism alter drug action. Methods of studying drug metabolism at the sub-cellular to the whole-organism level are discussed and evaluated, which include lectures on recent methods for analysis, such as counter current distribution, paper chromatography and electrophoresis.

*Lectures and seminars, 2 x 1 hour per week. Prerequisites: Pharmacology 301-302. 2 credit hours.*

362. *Drug Evaluation*

The techniques by which a new chemical agent is evaluated between its synthesis and its release to the medical profession are critically discussed.

*Lectures and seminars, 2 x 1 hour per week; Laboratory 1 x 4 hours per week for 6 weeks. Offered second semester on alternate years only. Prerequisites: Pharmacology 301-302. 2 credit hours.*

381, 382. *Seminar*

General topics are presented by students, staff members and visiting scientists. Organized surveys of selected fields may be presented upon request.

*1 x 1 hour per week. Offered both first and second semesters. Open to all properly qualified graduate students. 1 credit hour per semester.*

391, 392, 393, 394 *Thesis Research*

Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Master's or Doctor's thesis.

Credit as arranged.
The aim of the Department is to facilitate the dissemination of physiological and biophysical knowledge and to add to its store, particularly those phases which may be applied to medical practice and to clinical teaching and research. Current investigations in the Department concern the physiology and biophysics of cardiac contraction, respiratory control, intracellular clotting mechanisms, and auditory mechanisms.

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

The graduate program of the Department includes curricula culminating in the Master of Science and in the Doctor of Philosophy degrees. The courses and research program are restricted to the general fields of interest of the full-time faculty members. Further details will be found in the catalogue of the Graduate College.

Graduate Courses

Prerequisite—Permission of the Department Chairman.

201-202. Physiology and Biophysics.

This is the course given in the medical curriculum, modified as required to meet the needs of individual graduate students.

Lectures and conferences, 64 hours each semester; laboratory, 64 hours each semester. 6 credit hours each semester.
301, 302, 303, 304. Special Problems in Physiology.

This course, open to qualified students by arrangement with the staff, will cover various special problems by means of lectures, seminars and directed reading. Hours and credit as arranged.

311, 312, 313, 314. Special Problems in Biophysics.

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

381 through 389; 481 through 489. 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 399. 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.

DEPARTMENT OF PREVENTIVE MEDICINE

Associate Professors of Preventive Medicine: LEZER, (Chairman), AIKEN.
Assistant Professors of Preventive Medicine: CULVER, HAYNES.
Associate Professor of Public Health Nursing: HARSHBERGER.
Assistant Professor: F. FALCK (Speech Pathology)
Instructor in Preventive Medicine (General Practice): J. LANTMAN.
Instructor in Preventive Medicine (Rehabilitation): R. SMITH.
Clinical Associates in Preventive Medicine (General Practice): W. COVEY, E. CRANE, W. HEININGER, A. LAWRENCE, H. LEVINE, B. SINGERMAN, L. WAINER.

The aims of this department are:

1. To provide instruction in the several fields which constitute preventive medicine today, namely: human ecology, clinical
and social epidemiology, bio-statistics, medical care programs and public health, gerontology, rehabilitation, and industrial and occupational medicine.

2. To demonstrate the importance of fusion of preventive medicine concepts and curative medicine in comprehensive care of the patient.

3. To demonstrate the role of the general physician in total family care.

4. To relate the social sciences and allied professional fields in proper perspective to problems of medical care in the changing social, economic and cultural order of the 20th Century.

5. To conduct research in medical education and medical care with special emphasis on rural medical needs of Maine, New Hampshire and Vermont; to participate in research in geriatrics, gerontology and long-term illness.

To accomplish the stated purposes in orderly fashion, the department is functionally constituted as four divisions—general department, general practice, rehabilitation, and occupational and industrial health.

THE DEPARTMENT OF RADIOLOGY

Professor of Radiology: SOULE (Chairman).
Associate Professors of Clinical Radiology: PETERSON (also Associate in Biophysics), VAN BUSKIRK.
Associate Professor of Radiologic Physics: JANNEY.
Assistant Professors of Clinical Radiology: FOLEY, GUARE.
Instructors in Clinical Radiology: W. JOHNSTON, SAXBY.
Instructor in Neuroradiology and Radiologic Anatomy: RING.
Instructor in X-ray Technique: BANNISTER.

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 technicians receive instruction by members of this Department.

Nine 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 latter part of the second year, students are instructed in the principles of diagnostic and therapeutic radiology. Third-year students receive sectional instruction in film analysis. Third and fourth year students attend weekly radiology conferences.

A fully accredited residency program is available and utilizes the facilities of the College of Medicine and cooperating hospitals. Staff members participate in most of the teaching conferences of the College of Medicine.

**THE DEPARTMENT OF SURGERY**

- **Professor of Surgery:** Mackay (Chairman)
- **Associate Professor of Surgery:** Jacobson (Thoracic and Cardiac)
- **Associate Professors of Clinical Surgery:**
  - Gladstone
  - Truax
  - Page
- **Assistant Professor of Surgery:**
  - Keller, Wojnar
  - Haines (Oncology)
  - Barney (Plastic), Caccavo, Cain, Crandall, McGill, Pache, Shea, L. Thabault
- **Instructor in Surgery:**
  - Instructors in Clinical Surgery:
  - Kearney, Pacheco, Shea

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

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

In the third year, the undergraduate becomes intimately associated with patients through direct assignment, and individual supervision is given through a tutor, who is responsible for the students' comprehensive coverage of the basic subjects in surgery. This teaching is supplemented with department conferences, clinicopathological conferences, specialty conferences, panel discussions, ward rounds, and patient interviews. Examinations, which are oral and written, are given at the end of this period of instruction.
The experience of the senior on surgery will be oriented to inpatient work under the direct supervision of Faculty and housestaff of both local hospitals, giving the fourth-year students increased responsibility.

The Department concerns itself also with training personnel in the approved intern appointments of both local hospitals and their residency program, the latter being conducted jointly by the College of Medicine and the hospitals. The completion of this residency program leads to full qualification for admission to examinations 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.

DIVISION OF ANESTHESIOLOGY

Professor of Anesthesiology: ABAJIAN (Chairman).
Assistant Professors of Clinical Anesthesia: DENTE, MILLS.
Instructors in Clinical Anesthesiology: FUKUDA, MAZUZAN.

Undergraduate teaching consists of ten lectures, given three times yearly to the third-year class of medical students, plus conference one morning a week with the third year "Specialties" group, and periodically scheduled lectures in both the second and third years, as well as a number of invitation lectures in the Department of Pharmacology. The fourth year medical students are invited to attend the Anesthesiology Conferences which are held twice weekly. These conferences are primarily directed toward the resident training portion of the program. The resident training program consists of the appointment of seven residents for a period of two years each, who rotate through both hospitals.

DIVISION OF NEUROSURGERY

Professor of Neurosurgery: DONAGHY (Chairman).
Associate Professor of Neurosurgery: WALLMAN.

The Division of Surgical Neurology 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 quarter on surgery meet in small clinical conferences and share in combined conferences on
neuropathology and neuroradiology. They serve as clinical clerks and are welcomed to the daily neurosurgical rounds and the weekly staff conference.

Fourth-year students work in the combined neurology-neurosurgery outpatient clinics and assist on operations.

A four-year residency program is offered.

Neurosurgical services are maintained in both local teaching hospitals.

DIVISION OF ORTHOPEDIC SURGERY

Associate Professor of Orthopedic Surgery: J. F. BELL (Chairman).
Assistant Professors of Clinical Orthopedic Surgery: KUHLMANN, RUST.
Instructors in Clinical Orthopedic Surgery: DAVIS, SIMPSON.
Consultant in Orthopedic Surgery: BOSWORTH.

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

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

DIVISION OF THORACIC AND CARDIAC SURGERY

Associate Professor of Clinical Surgery (Thoracic and Cardiac): MILLER (Chairman).
Associate Professor of Surgery: JACOBSON (Thoracic and Cardiac).

This Division concerns itself primarily with problems involving the chest and the various organs contained therein.

An active teaching program is maintained which includes undergraduates in the College of Medicine, as well as the interns and residents in the two teaching hospitals.
The research program of this Division has been devoted mainly to various problems related to open-heart surgery over the past few years. This important work will be continued, and in general an increasing amount of time and interest will be devoted to active participation in the over-all surgical research program which has been growing so rapidly since Dr. Jacobson joined the faculty.

DIVISION OF UROLOGY

Associate Professor of Clinical Urology: Powell (Chairman).
Assistant Professor of Clinical Urology: Fagan.
Instructor in Clinical Urology: 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 broad segments 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, observation in cystoscopy and operating rooms.

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

A three-year approved urological residency program is in effect and a first year in basic science is available and necessary prior to entering residency.
PERSONNEL
COLLEGE OF MEDICINE
FACULTY AND OTHER OFFICERS
PROFESSORS EMERITI

*Benjamin Dyer Adams  Assistant Professor Emeritus of Surgery
M.D., University of Vermont, 1908.

Lyman Allen  Professor Emeritus of Surgery
A.B., University of Vermont, 1893; M.D., 1896.

Thomas Stephen Brown  Professor Emeritus of Anatomy
M.D., University of Vermont, 1904.

William Eustis Brown  Professor Emeritus of Preventive Medicine

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

Fred Kinney Jackson  Professor Emeritus of Physiology
A.B., University of Vermont, 1897; M.D., 1899.

Charles Kimball Johnson  Professor Emeritus of Pediatrics
M.D., University of Vermont, 1899.

Hovey Jordan  Professor Emeritus of Histology and Embryology
Ph.B., University of Vermont, 1913; M.S., 1914; A.M., Harvard, 1916.

Elizabeth Kundert  Assistant Professor Emeritus of Clinical Psychiatry
B.S., University of Wisconsin, 1920; M.S., 1924.

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

David Marvin  Professor Emeritus of Pharmacology
M.D., University of Vermont, 1900.

Henry Lee Mills  Instructor Emeritus in Public Health
D.V.M., Grand Rapids Veterinary College, 1911.

Charles Perkins Moat  Assistant Professor Emeritus of Public Health
B.S., Massachusetts Institute of Technology, 1896; M.D., German University of Prague, 1926.

Harold Barnard Pierce  Professor Emeritus of Biochemistry
B.S., Massachusetts State College, 1917; M.S., Pennsylvania State College, 1921; Ph.D., University of Rochester, 1928.

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

Walford Tupper Rees  Professor Emeritus of Clinical Surgery
M.D., University of Vermont, 1924.

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

Emmus George Twitchell  Professor Emeritus of Ophthalmology, Otolaryngology and Rhinology
A.B., Queen's University, Canada, 1902; M.D., C.M., 1906

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

PROFESSORS

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

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

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

ELLSWORTH LYMAN AMIDON Professor of Medicine
B.S., Tufts College, 1927; M.D., University of Vermont, 1932; M.S. (Med.), University of Pennsylvania, 1938.

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

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

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

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

FRED WILLIAMS DUNIHUE Professor of Anatomy
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CHESTER ALBERT NEWHALL Professor of Anatomy
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JOHN FIDLAR DALY Professor of Dermatology
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WILLIAM VAN BOGAERT ROBERTSON Professor of Biochemistry and Associate Professor of Experimental Medicine
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WALTER ALVA STULTZ  Professor of Anatomy  
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EUGENE LEPESCHKIN  Professor of Experimental Medicine  
M.D., University of Vienna, 1939.

DONALD BURTON MELVILLE  Professor of Biochemistry  
B.S., University of Illinois, 1936; M.S., 1937; Ph.D., 1939.

ASSOCIATE PROFESSORS

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EDWARD CLINTON ANDREWS, JR.  Associate Professor of Pathology  
A.B., Middlebury, 1946; M.D., Johns Hopkins, 1951.

JOHN FRYE BELL  Associate Professor of Orthopedic Surgery  

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

ALFRED HAYES CHAMBERS  Associate Professor of Physiology and Biophysics  
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Ph.D., University of Maryland, 1956.

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FRANK JAMES FALCK  
Assistant Professor of Speech Therapy (Preventive Medicine)  
A.B., University of Kentucky, 1950;  
M.A., 1951; Ph.D., Pennsylvania State University, 1955.

JOSEPH CLAYTON FOLEY  
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B.S., Middlebury, 1939; M.A., New York State College, 1940; M.D., University of Vermont, 1949.

MARY JANE GRAY  
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Elbridge Eugene Johnston  Assistant Professor of Clinical Medicine
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Jay Edgar Keller  Assistant Professor of Clinical Surgery
M.D., University of Vermont, 1940.

Friedrich Wilhelm Klemperer  Assistant Professor of Clinical Medicine
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Raymond Frank Kuhlmann  Assistant Professor of Clinical Orthopedic Surgery
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Bert Karl Kusserow  Assistant Professor of Pathology
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Morris Williams Lambie  Assistant Professor of Clinical Medicine
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*Jerold Francis Lucey  Assistant Professor of Pediatrics
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William Hossfeld Lugnibuhl  Assistant Professor of Pathology
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Murdo Glenn MacDonald  Assistant Professor of Clinical Pharmacology
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Herbert Lloyd Martin  Assistant Professor of Clinical Neurology
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Ina Maxson  Assistant Professor of Medical Technology
B.S., Battle Creek College, 1926; M.S., Michigan State College, 1934.

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

Harold Edward Medivetsky  Assistant Professor of Clinical Medicine
B.S., University of Vermont, 1929; M.D., 1932.

Ernest Lee Mills  Assistant Professor of Clinical Anesthesia
B.S., University of Vermont, 1938; M.D., 1942.

Richard L. Naeye  Assistant Professor of Pathology and Markle Scholar

Robert Emmett O'Brien  Assistant Professor of Clinical Medicine
B.S., St. Michael's, 1942; M.D., University of Vermont, 1945.

HAROLD GORDON PAGE  Assistant Professor of Surgery  
B.S., University of Vermont, 1940; M.D., 1945.

ELMER MCCREADY REED  Assistant Professor of Clinical Otolaryngology  
B.S., Allegheny, 1932;  
M.D., Jefferson Medical College, 1936.

CHARLES BRUSH RUST  Assistant Professor of Clinical Orthopedic Surgery  
M.D., University of Vermont, 1939.

WADI SAWABINI  Assistant Professor of Oral Hygiene and Dental Medicine  
D.D.S., American University of Beirut, 1940.

ELMER MCCREADY REED  Assistant Professor of Clinical Otolaryngology  
B.S., Allegheny, 1932;  
M.D., Jefferson Medical College, 1936.

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D.D.S., American University of Beirut, 1940.

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D.D.S., American University of Beirut, 1940.

ELMER MCCREADY REED  Assistant Professor of Clinical Otolaryngology  
B.S., Allegheny, 1932;  
M.D., Jefferson Medical College, 1936.

CHARLES BRUSH RUST  Assistant Professor of Clinical Orthopedic Surgery  
M.D., University of Vermont, 1939.

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D.D.S., American University of Beirut, 1940.

ELMER MCCREADY REED  Assistant Professor of Clinical Otolaryngology  
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M.D., Jefferson Medical College, 1936.

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M.D., University of Vermont, 1939.

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D.D.S., American University of Beirut, 1940.

ELMER MCCREADY REED  Assistant Professor of Clinical Otolaryngology  
B.S., Allegheny, 1932;  
M.D., Jefferson Medical College, 1936.

CHARLES BRUSH RUST  Assistant Professor of Clinical Orthopedic Surgery  
M.D., University of Vermont, 1939.

WADI SAWABINI  Assistant Professor of Oral Hygiene and Dental Medicine  
D.D.S., American University of Beirut, 1940.

ELMER MCCREADY REED  Assistant Professor of Clinical Otolaryngology  
B.S., Allegheny, 1932;  
M.D., Jefferson Medical College, 1936.

CHARLES BRUSH RUST  Assistant Professor of Clinical Orthopedic Surgery  
M.D., University of Vermont, 1939.

WADI SAWABINI  Assistant Professor of Oral Hygiene and Dental Medicine  
D.D.S., American University of Beirut, 1940.

ELMER MCCREADY REED  Assistant Professor of Clinical Otolaryngology  
B.S., Allegheny, 1932;  
M.D., Jefferson Medical College, 1936.

CHARLES BRUSH RUST  Assistant Professor of Clinical Orthopedic Surgery  
M.D., University of Vermont, 1939.

WADI SAWABINI  Assistant Professor of Oral Hygiene and Dental Medicine  
D.D.S., American University of Beirut, 1940.

ELMER MCCREADY REED  Assistant Professor of Clinical Otolaryngology  
B.S., Allegheny, 1932;  
M.D., Jefferson Medical College, 1936.

CHARLES BRUSH RUST  Assistant Professor of Clinical Orthopedic Surgery  
M.D., University of Vermont, 1939.

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STANLEY LIVINGSTON BURNS, JR.  Instructor in Medicine
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ROBERT NOLAN CAIN  Instructor in Clinical Surgery
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ROBERT NOLAN CAIN  Instructor in Clinical Surgery
B.S., University of Vermont, 1943; M.D., 1945.

MARTIN JOHN CANNON  Instructor in Clinical Obstetrics
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B.S., Springfield College, 1953; M.D., University of Vermont, 1957.

ALBERT JAMES CRANDALL  Instructor in Clinical Surgery
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PHILIP HOVEY DAVIS  Instructor in Clinical Orthopedic Surgery
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WILLIAM NELSON DEANE  Instructor in Social Psychiatry
A.B., Gordon College, 1941; B.D., Andover-Newton Theological School, 1944; M.A., University of New Hampshire, 1948; Ph.D., Washington University, 1954.

Winston Milo Eddy  Instructor in Clinical Medicine
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VILMA T. FALCK  Instructor in Audiology

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ARTHUR SAUL KUNIN  Instructor in Medicine and in Clinical Biochemistry
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B.S., University of Vermont, 1948; M.D., 1951.
(General Practice)

CLARE KENT MARSHALL  Instructor in Clinical Psychiatry and in Clinical Neurology

JOHN EDMUND MAZUZAN, JR.  Instructor in Clinical Anesthesiology
B.S., Boston College, 1951; M.D., University of Vermont, 1954.

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

MARION CLAIRE MCKEE  Instructor in Clinical Neurology and in Clinical Pediatrics

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

HENRI LOUIS PACHE  Instructor in Clinical Surgery
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EDWIN MATTSON PAXSON  Instructor in Clinical Pediatrics

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

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

BENJAMIN ALBERT RING  Instructor in Neuroradiology and Radiologic Anatomy
B.S., Bates, 1942; M.D., Tufts, 1946.

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

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

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

ROBERT PEASE SMITH  Instructor in Medicine and in Preventive Medicine (Rehabilitation)
A.B., Princeton, 1939; M.D., Harvard, 1943.

DAVID LATHAM TABER  Instructor in Clinical Obstetrics and Gynecology
M.D., Long Island, 1946.
LOUIS GEORGE THABAULT  Instructor in Clinical Surgery
M.D., University of Vermont, 1930.

WILFRID LOUIS THABAULT  Instructor in Clinical Obstetrics
B.S., St. Michael’s, 1943; and Gynecology
M.D., University of Vermont, 1947.

THOMAS DERMOTT TRAINER  Instructor in Pathology

GEORGE WILLIAM WELSH  Instructor in Medicine
B.A., Yale, 1942; M.D., Rochester, 1950.

WILLIAM DORRANCE WORTHINGTON  Instructor in Clinical
M.D., Baylor, 1949; M.P.H., University of Pittsburgh, 1957. Pediatrics

RESIDENTS AND FELLOWS

ALLEN GIRARD BENNETT Resident in Obstetrics and Gynecology
A.B., Oberlin, 1953; M.D., Western Reserve, 1957.

PAUL JOHN BENSON Resident in Obstetrics and Gynecology
A.B., Eastern Michigan University, 1955; M.D., University of Michigan, 1959.

RUSSELL CHAMBERLIN BRIGGS Resident in Radiology

ANN LEWIS CALDWELL Resident in Medicine

THOMAS ALLEN CLARK Resident in Pediatrics

JAMES ARTHUR DANIGELIS Resident in Radiology
B.S., University of Vermont, 1956; M.D., 1959.

HOWARD RANDALL DEMING Resident in Radiology
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SERGE JACQUES DOS Resident in Surgery

MASSOUD EGHRAI Residency in Surgery

MARTIN EDWARD FLANAGAN Resident in Neurosurgery
M.D., University of Vermont, 1956.

BORIS FROHMAN Resident in Surgery
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LEONARD SHEFFER GETTES Resident in Medicine

DONALD IRWIN GUTTMAN Resident in Anesthesiology

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DANIEL JAMES HANSON, JR. Resident in Radiology
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ANTRANIK HAZARYAN Resident in Anesthesiology

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RUHI KHALIL HINDAWI Resident in Surgery
A.B., American University of Beirut, 1948; M.D., 1952.

WILLIAM ELWIN HODGKIN Resident in Pediatrics

JAN JAMHARIAN Resident in Anesthesiology
M.D., Istanbul, 1953.

KARL-HEINZ KURT KOSSE Resident in Urology
M.D., Free University of Berlin, 1956.

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JOHN HOLLISTER MILNE Resident in Medicine

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B.S., University of Bonn, 1948; M.D., Medical Academy, Duesseldorf, 1952.

KENNETH STRAUSEFELD Resident in Obstetrics and Gynecology
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JOHN PETER TAMPAS Resident in Radiology
B.S., University of Vermont, 1951; M.D., 1954.

FRANCOIS MICHEL TOUTOUNGHI Resident in Surgery
M.D., University of Cairo, 1955.

GHULAM HAZRAT WAHID Resident in General Practice
M.D., Ali-Abad (Kabul, Afghanistan), 1954. (Preventive Medicine)

HAROLD JAMES WALLACE Resident in Medicine

DON WESLEY WEHLING Resident in Anesthesiology

GEORGE WILLIAMS Visiting Senior Research Fellow in Medicine (Pathology)
M.D., St. Andrews (Scotland), 1956.

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B.S., Rensselaer Polytechnic Institute, 1938; M.S., University of California, 1949; Ph.D., Northwestern, 1953.

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B.S., University of Vermont, 1940; M.S., 1942; O.D., Pennsylvania State College of Optometry, 1950;
M.D., University of Vermont, 1955.

ARTHUR BYRON LAWRENCE  .  .  .  .  Clinical Associate in Preventive
A.B., University of Vermont, 1921; Medicine (General Practice)
M.D., 1924.

HYMAN BERNARD LEVINE  .  .  .  .  Clinical Associate in Preventive
B.S., University of Vermont, 1930; Medicine (General Practice)
M.D., 1939.

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B.A., Colorado College, 1952; (Parasitology)
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B.S., New Jersey College for Women, 1954;
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B.S., College of the City of New York, Medicine (General Practice)
1929; M.D., University of Vermont, 1934.

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B.S., University of Utrecht, 1946; Drs. in Chemistry, 1951.

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M.D., Tufts, 1935; (Psychiatry)

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M.D., Leyden University (Netherlands), 1952.

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B.A., McGill, 1929; M.D., 1933; Preventive Medicine
(General Practice)
MAURICE JAMES WALSH. Clinical Associate in Medicine
B.S., University of Vermont, 1936; M.D., 1939.
LELON ASHLEY WEAVER, JR. Research Associate in
A.B., University of Vermont, 1943; M.A., Columbia, 1947; Ph.D., Purdue, 1957.

LIBRARY

BETTY ANN WITHROW, B.A., B.S., in L.S. Librarian

MEDICAL PHOTOGRAPHER
FRANCIS CHARLES MALLORY, Director of Medical Photography

SENIOR TECHNICIANS
JOHN CHARLES BOLDOSSER Senior Technician in Pathology
DALLAS RICHARD BOUSHEY Senior Technician in Anatomy
LESLEIGH GALE CLARK Senior Technician in Medicine

ASSISTANTS
HENRY PATRICK ALBARELLI Teaching Assistant in Medical Technology
MRS. LEONA AMELIA, R.N. Research Assistant in Medicine
MRS. GRETCHEN HEBB BEAN Research Assistant in Physiology and Biophysics
JOSEPH ROGER BEAUREGARD Research Assistant in Pharmacology
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DAVID HERBERT McDERMOTT Research Assistant in Biochemistry

MRS. PATRICIA B. MCHUGO Research Assistant in Pharmacology
MRS. LAURETTE BISSON MCKENNY Research Assistant in Pediatrics
EDWARD FREDERICK MERRILL
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DEREK MYHILL
Research Assistant in Medicine

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Research Assistant (Documentation) in Pharmacology
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VERA MARIA CAROLINA VERVLOET
Research Assistant in Medicine
Licentiate in Biology, University of Ghent, 1959.

WING MORRISON WOON
Research Assistant in Pathology (Photography)
GRADUATES — JUNE 1960

INTERNSHIP APPOINTMENTS

Louis Niman Ashkar, A.B.  
Jackson Memorial Hospital, Miami, Fla.

David Anthony Austin, A.B.  
Milwaukee County Hospital, Milwaukee, Wis.

Martin Ellis Bloomfield, B.A.  
Lenox Hill Hospital, New York, N. Y.

Charles Rudolph Brinkman, B.S.  
Albany Hospital, Albany, N. Y.

Robert Keith Brown, A.B.  
Hartford Hospital, Hartford, Conn.

Richard George Caldwell, A.B.  
Presbyterian St. Lukes Hospital, Chicago, Ill.

Bruce Allan Chaffee, B.A.  
New England Center Hospital, Boston, Mass.

John Dana Clark, B.A.  
Ireland Army Hospital, Fort Knox, Kentucky

John Patton Clements, B.A.  
U. S. Air Force Hospital, Lackland AFB, San Antonio, Texas

Henry Eugene Curley, B.A.  
Syracuse Medical Center, Syracuse, N. Y.

William Franklin Cushman, A.B., M.S.  
St. Francis Hospital, Hartford, Conn.

John Joseph Dalton, Jr., B.A.  
Jackson Memorial Hospital, Miami, Fla.

Richard Charles Dillihunt, B.S.  
St. Lukes Hospital, New York, N. Y.

William Hotchkiss Doolittle, B.S.  
Womack Army Hospital, Fort Bragg, N. C.

John Bowns Fenning, B.S.  
U. S. Naval Hospital, Chelsea, Mass.

Antonio Isaias German, B.S., M.D.  
None

Edward Alfred Greco, B.S.  
St. Francis Hospital, Hartford, Conn.

Donald Richard Homer, A.B.  
University of Chicago Clinics, Chicago, Ill.

Joseph Raphael Jurkoic, A.B.  
DeGoesbriand Memorial Hospital, Burlington
Seymour Ronald Kaplan, B.A.
Philadelphia General Hospital, Philadelphia, Pa.
William Knights, A.B., M.A. St. Francis Hospital, Hartford, Conn.
Edward Anthony Kupic, B.A.
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David DuBrul Lawrence, A.B.
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Robert Livingston, B.S. Norwalk Hospital, Norwalk, Conn.
Kenneth Allton Murdock, Jr.
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Richard Milton Narkewicz, A.B.
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Long Island Jewish Hospital, New Hyde Park, N. Y.
Audrey Jean Opulski, B.A. St. Francis Hospital, Hartford, Conn.
John Joseph Ouellette, A.B. University Hospitals, Madison, Wis.
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Stephen George Pappas, B.S.
Edward J. Meyer Hospital, Buffalo, N. Y.
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Joseph Michael Siegel, A.B.
Lenox Hill Hospital, New York, N. Y.
George Adam Soufleris, B.A.
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Herzl Robert Spiro, B.A.
The New York Hospital, New York, N. Y.
John Waller Stetson, A.B.
Denver General Hospital, Denver, Colo.
James Cedric Stevens, B.S.
Mallory Institute of Pathology, Boston City Hospital, Boston, Mass.
Sara Ann Stoesser, A.B.
St. Lukes Hospital, New York, N. Y.
Philip Goodrich Whitney, B.A.
Strong Memorial-Rochester Municipal Hospitals, Rochester, N. Y.
Melvyn Hyman Wolk, A.B.
Bronx Municipal Hospital Center, New York, N. Y.
Fred Anthony Ziter, A.B. Syracuse Medical Center, Syracuse, N. Y.
COLLEGE OF MEDICINE

PRIZES

JUNE 1960

CARBEE PRIZE

For greatest proficiency in the subject of Obstetrics

Sara Ann Stoesser, A.B.

WOODBURY PRIZE IN MEDICINE

For greatest proficiency in Clinical Work in senior year

Herzl Robert Spiro, B.A.

To the sophomore having the highest standing for two years of Medical Work

Stuart Donald Cook, A.B., M.S.

LAMB FOUNDATION PRIZES

To the students showing greatest comprehension and appreciation of the Doctor-Patient Relationship

First: Herzl Robert Spiro, B.A.
Second: Louis Niman Ashkar, A.B.
Third: John Waller Stetson, B.A.

ALPHA OMEGA ALPHA

National Honor Medical Society

Henry Eugene Curley, B.A.
William Hotchkiss Doolittle, B.S.
Richard Charles Dillihunt, B.S.
Marvin Alfred Nierenberg, B.A.
Herzl Robert Spiro, B.A.
Sara Ann Stoesser, A.B.
Philip Goodrich Whitney, B.A.
FOURTH YEAR:
Donald Skinner Bicknell, B.A.  
McIndoe Falls
Alden Hirsh Blackman, B.A.  
Providence, R. I.
Charles Gerard Brennan, A.B.  
Brookline, Mass.
John Charles Collins, Jr., B.A.  
Waterbury, Conn.
Raymond Wade Covill, B.S.  
Bedford, N. H.
Victor Joseph DePratti, B.S.  
Athol, Mass.
Mrs. Elizabeth Day Fields, B.S.  
Waterbury
Wilfred Leon Fortin, B.A.  
Manchester, N. H.
Robert Cesare Guiduli, B.A.  
Barre
George Hughes Hansen, B.S.  
Rutland
Edward Keith Howard, B.A.  
Burlington
Thomas Gerald Howrigan, B.S.  
Fairfield
Rudolph Martin Keimowitz, B.A.  
Middletown, N. Y.
John Bradley Lafave, B.A.  
Malone, N. Y.
Thomas Edward Lally, B.S.  
Franklin, N. H.
Kenneth Spero Latchis, A.B.  
Brattleboro
Kenneth Jay Levin, A.B.  
Manchester, N. H.
Alan Blair Mackay, A.B.  
Burlington
Allan Wray Mathies, Jr., B.A., M.S.,  
Ph.D.  
Colorado Springs, Colo.
John Marshall McGinnis, Jr., B.A.  
Natick, Mass.
William James McSweeney, B.S.  
Burlington
John Charles Mesch, B.A.  
Hanover, N. J.
Charles Eldor Moisan, Jr., B.A.  
Burlington
Patrick Edward Moriarty, B.S.  
Springfield, Mass.
Richard Dodge Morrison, B.A.  
Canaan, N. H.
Willard Jackson Morse, Jr., B.S.  
Waterford, Conn.
Donald Robert Morton, B.S.  
Presque Isle, Me.
Albert John Murphy, B.S.  
Manchester, N. H.
James Edward O'Brien,  
B.S., M.S., Ph.D.  
New Haven, Conn.
Evan Orphanos, B.S.  
Lynn, Mass.
Leonard Martin Parker, B.A.  
Mattapan, Mass.
Charles Arthur Pitman, B.A.  
Bayside, N. Y.
Herbert Gerhard Prakelt, B.S.  
Townshend
George Benjamin Reservitz, B.S.  
Brockton, Mass.
David Alan Stephens, B.A.  
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Andrew Melville Stewart, B.A.  
Hanover, N. H.
Albert Howard Stone, B.A.  
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John Alfred Vaillancourt, B.A.  
Swanton
Marianna Vas  
Budapest, Hungary
Margaret Miles Waddington, B.S.  
North Hero
William Taylor Wallace, Jr., A.B.  
Littleton, N. H.
Miles Edward Waltz, B.A.  
Keene, N. H.

THIRD YEAR:
Saul Adams, B.S., M.S.  
Rockland, Mass.
Ralph David Aserkoff, B.A.  
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Edward Michael Austin, B.A.  
Brattleboro
Roger David Baker, B.A.  
Burlington
Salomon Bensimhon, B.A.  
New York, N. Y.
Clarence Edward Bunker, B.S.  
Brewer, Me.
Spencer Worthington Burney, B.S.
Charlestown, N. H.
John Barry Burns, B.S. Montpelier
David Stuart Chase, B.A.
Lancaster, N. H.
Stuart Donald Cook, A.B., M.S.
Brookline, Mass.
Daniel Harrison Day, A.B.
Yarmouth, Me.
John Richard Dooley, A.B.
Portland, Me.
Donald Thomas Evans, B.A. Rutland
Samuel Edwin Fineberg, B.S.
Bridgeport, Conn.
John Rudolph Fischer, B.A.
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Nathel John Fontana, B.A.
W. Lebanon, N. H.
Donald McKenzie Ford, B.S.
Northfield
Michael Ignatius Grady, A.B.
Chestnut Hill, Mass.
Harvey Grant, B.S., B.A.
Springfield, Mass.
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Joseph John Guardino, B.S., M.Ed.
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Richard Donald Haskell, A.B.
Orono, Me.
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Robert Lowell Jennings, B.S.
Mendon, N. D.
Warren Evan Johnson, A.B.
Leicester, Mass.
Joshua Moses Kaplan, A.B.
W. Roxbury, Mass.
Roger Lee Lerner, B.A.
Bridgeport, Conn.
Dean Sherwood Louis, B.S.
Fremont, N. H.
John Murdock MacAulay, B.A.
Graniteville
Neil Francis Mara, B.S., M.S.
Chicopee Falls, Mass.
Paul Arthur Marshall, B.S.
Waterville, Me.
Jack Norman Meltzer, B.A.
Bangor, Me.
Donald Putnam Miller, A.B.
Montpelier
Robert George Mondou, A.B.
Manchester, N. H.
Daniel Isaac Palant, B.A.
Springfield, Mass.
Sherwin Howard Ritter, B.A.
Springfield, Mass.
Norman Burton Schwartz, A.B.
Milton, Mass.
Ruth Andrea Seeler, B.A.
Ardsley, N. Y.
Donald Walter Seymour, B.A.
W. Rutland
Lewis Mark Slater, A.B.
Flushing, N. Y.
Walter George Wrobieski, Jr., B.S.
Nashua, N. H.

SECOND YEAR:

Daniel Vincent Bartolomei, Jr., B.S.
Falmouth, Mass.
Frank Platt Bolles, B.S. Bellows Falls
Thomas George Brault, A.B.
Burlington
Augustine David Brewin, Jr., B.S.
Nabant, Mass.
James Chrysostom Cabral, B.S.
Middleton, Mass.
Joseph Donald Capra, A.B.
Burr
David Ralph Congdon, B.A.
Wallingford
Joseph Valentine Cresci, B.A.
Brooklyn, N. Y.
Alan Frederick Crosby, B.A.
Burlington
Peter Clowes Dowling, B.S.
Laconia, N. H.
Gerald Louis Evans, B.A.
Gloucester, Mass.
Gerald Lester Finkelstein, B.S.
Revere, Mass.
Jesse Lewis Ginsburg, B.A. Burlington
Philip Anthony Goddard, A.B.
Morrisville
Alan Burton Gruskin, B.S.
Springfield, Mass.
Thomas Joseph Halligan, Jr., B.S.
Concord, N. H.
Thomas Michael Hanlon, Jr., B.S.
Salem, Mass.
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  W. Roxbury, Mass.
John David Izsak, A.B.
  Longmeadow, Mass.
Leigh Wakefield Kendall, A.B.
  Brattleboro
Arnold Martin Kerzner, B.A.
  Springfield, Mass.
William Edward Layden, B.A.
  Rutland
Neil Nason Mann, B.A.
  Waban, Mass.
Leroy George Meshel, B.A.
  Lido, L. I., N. Y.
Darrell Lloyd Moody, B.A.
  North Anson, Me.
Edward Richard Molcay, Jr., A.B.
  Malden, Mass.
John Joseph Murray, Jr., B.A.
  Somerville, Mass.
Ronald Stanley Nadel, B.A.
  Brookline, Mass.
Henry Modestino Stephen Nigro, A.B.
  W. Newton, Mass.
John Lowery Noyes, B.A.
  Brattleboro
Cathleen Connaughton O'Brien, B.S.
  St. Albans
Felix Anthony Perriello, B.S.
  Medford, Mass.
Allen Douglas Price, B.S., M.S.
  Concord, N. H.
Peter Ivan Rabinovitch, A.B.
  Norwalk, Conn.

FIRST YEAR:

Arthur George Aaronson, B.A.
  Woodbridge, Conn.
Stewart Atkinson, Jr., B.A., M.Sc.
  Manchester, Conn.
Cameron Clarence Bangs, B.S.
  Fairhaven, Mass.
Anthony Port Belmont, A.B.
  Stamford, Conn.
Merrill Douglas Benson
  Alburg
Francis Wellington Brecker, Jr., B.S., M.S.
  Springfield, Mass.
Mazzini Bueno, B.A.
  Rio de Janeiro, Brazil
William Michael Burke, A.B.
  West Roxbury, Mass.
John Alan Calcagni, B.A.
  Morrisville

Paul Chester Rutkowski, B.A.
  Malone, N. Y.
Edward Charles Saef, B.A.
  Mattapan, Mass.
David Giles Sanders, A.B.
  Wakefield, Mass.
Frederick Stephen Shmase, A.B.
  Peabody, Mass.
Richard Norman Stein, B.A.
  Brooklyn, N. Y.
Derwood Lynn Stetson, B.S.
  Morrisville
Duncan Edward Stewart, B.A.
  Bellows Falls
William Carl Swanson, Jr., B.A.
  Woodstock
Ann Marie Tompkins, B.A.
  Island Falls, Me.
Philip Joseph Villandry, B.A.
  Biddeford, Me.
Howard Alan Walker, B.A.
  Barre
Hervey Allan Weitzman, B.S.
  Longmeadow, Mass.
Houghton McLellan White, B.A.
  Brunswick, Maine
Carol Marion Wildman, B.S.
  Cochituate, Mass.
Alan Yagoda, B.A.
  Brooklyn, N. Y.
Graham Yelland, B.A.
  Watertown, Mass.
George Nabile Yerid, B.S.
  Lebanon, N. H.
Sheldon David Zigelaum
  B.S., D.M.D.
  Swampscott, Mass.

Prescott John Cheney, A.B.
  Bristol, Me.
John Tang Chiu, B.A.
  Macao
Thomas Maxwell Connelly, Jr., B.S.
  Milton, Mass.
Robert Marshall Cross, A.B.
  Bennington
David Davis, B.A.
  Brooklyn, N. Y.
Leonard John Deftos, B.A.
  Brockton, Mass.
Lawrence Melvyn Eisenstein, B.A.
  Brooklyn, N. Y.
Stanley Everett
  Floral Park, N. Y.
Melvin Louis Feldman, B.S.
  Washington, D. C.
Robert Lawrence Fenning, B.A.
  Bridgeville, Pa.
<table>
<thead>
<tr>
<th>Name</th>
<th>City, State</th>
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<tr>
<td>Gerald Allan Frank</td>
<td>Mattapan, Mass.</td>
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<tr>
<td>Louis Goldenberg</td>
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<td>John Samuel Gould</td>
<td>Pittsfield, Me.</td>
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<tr>
<td>Herbert Frederic Heim</td>
<td>Rockville Centre, N. Y.</td>
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<td>New York, N. Y.</td>
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<td>Flushing, N. Y.</td>
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<td>Hanover, N. H.</td>
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<td>Jamaica Plains, Mass.</td>
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<td>Brooklyn, N. Y.</td>
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<td>Melvin Arnold Yoselevsky</td>
<td>Oakdale, Conn.</td>
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<tr>
<td>David Young</td>
<td>Providence, R. I.</td>
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</tbody>
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Phase I. College of Medicine Buildings