1958

University of Vermont, College of Medicine Bulletin

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

1958-59

September 19 Friday Enrollment and payment of fees.
September 20 Saturday Convocation.
September 22 Monday Class work and assignments begin.

1ST YEAR

1ST QUARTER: Sept. 22 (Mon.) through Nov. 19 (Wed.)
   Sept. 22 Monday Classes begin.
   Nov. 15-19 Sat. through Wed. Midsemester examinations.

2ND QUARTER: Nov. 20 (Thurs.) through Feb. 1 (Sun.)
   January 5 Monday. Classes resume.
   Jan. 19-21 Mon. through Wed. No classes.

3RD QUARTER: Feb. 2 (Mon.) through March 31 (Tues.)
   February 2 Monday. Classes resume.
   February 3 Tuesday. Enrollment.
   February 20-21 Friday and Sat. Kake Walk—no classes.
   March 20-24 Friday through Tues. Midsemester examinations.

4TH QUARTER: April 1 (Wed.) through June 14 (Sun.)
   April 1 Wednesday. Classes resume.
   May 29 Friday. Last day of classes.
   June 1-8 Mon. through Mon. Examinations.

2ND YEAR

1ST FIFTH: Sept. 22 (Mon.) through Nov. 5 (Wed.)
   Sept. 22 Monday. Classes begin.
   Nov. 3-5 Monday through Wed. Examinations.

2ND FIFTH: Nov. 6 (Thurs.) through Dec. 20 (Sat.)
   Nov. 6 Thursday. Classes resume.
   Dec. 18-20 Thurs. through Sat. Examinations.

3RD FIFTH: Jan. 5 (Mon.) through Feb. 19 (Thurs.)
   January 5 Monday. Classes resume.
   Feb. 16-19 Mon. through Thurs. Examinations.
   Feb. 20-21 Friday and Sat. Kake Walk—no classes.
4TH FIFTH:  Feb. 23 (Mon.) through April 18 (Sat.)

February 23  Monday.  Classes resume.
April 1  Wednesday.  Classes resume.
April 15-18  Wed. through Sat.  Examinations.

5TH FIFTH:  April 20 (Mon.) through June 14 (Sun.)

April 20  Monday.  Classes resume.
May 30  Saturday.  Memorial Day—no classes.
June 6  Saturday.  Classes terminate.
June 8-13  Mon. through Sat.  Examinations.

3RD YEAR

1ST QUARTER:  Sept. 22 (Mon.) through Dec. 7 (Sun.)

Sept. 22  Monday.  Classes begin.

2ND QUARTER:  Dec. 8 (Mon.) through March 15 (Sun.)

January 5  Monday.  Assignments resume.
March 7-15  Sat. noon through Sun.  Spring recess.

3RD QUARTER:  March 16 (Mon.) through June 21 (Sun.)


4TH QUARTER:  June 22 (Mon.) through Sept. 5 (Sat. noon)

June 22  Monday.  Assignments resume.
Sept. 5  Saturday noon.  Assignments terminate.

4TH YEAR

March 21-29  Sat. noon through Sun.  Spring recess.
May 23  Saturday.  Last day of assigned work.
May 25-27  Mon. through Wed.  Pre-examination days.
May 28-June 2  Thurs. through Tues.  Examinations.
June 3-13  Wed. through Sat.  Vacation.
June 14  Sunday.  Graduation.
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THE BOARD OF TRUSTEES

JOHN THEODORE FEY, D.J.S.  
JOSEPH BLAINE JOHNSON, LL.D.  
President  
Governor  
Ex-Officio

March, 1953—March, 1959

CHARLES HENRY BROWN, B.S.  
OLIN DOW GAY, M.A.  
CORNELIUS O. GRANAI, LL.B.  
BENJAMIN FRANK MYOTT  
(From Apr. 28, 1955)

Brandon, Vt.  
Springfield, Vt.  
Barre, Vt.  
Enosburg Falls, Vt.

March, 1954—March, 1960

DONALD ALBERT GANNON, B.S.  
ALBERT LOVEJOY GUTTERSON, B.S.  
ROBERT THAYER HOLDEN, B.S.  

Wellesley, Mass.  
Springfield, Vt.  
Bennington, Vt.

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)

Shaftsbury, Vt.  
Worcester, Vt.  
Goshen, Vt.  
Brattleboro, Vt.

March, 1956—March 1962

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

New York, N. Y.  
Rutland, Vt.  
Burlington, Vt.

March, 1957—March, 1963

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

Manchester, Vt.  
Stowe, Vt.  
Richmond, Vt.  
Shelburne, Vt.

March, 1958—March, 1964

GEORGE LORENZO BEST, B.S.  
NEIL TOLMAN, LL.B.  
EDWARD MILTON WINANT, M.D.  
Secretary of the Board—CHESTER B. EATON  
Assistant Secretary—ANNA C. SMITH  
Rockville Center, N. Y.  
Washington, D. C.  
Bronxville, N. Y.
STANDING COMMITTEES
Effective July 1, 1958

Admissions—Dean Wolf*; Drs. Pierce**; R. Amidon; Bouchard; Crowley; Stultz.

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

Intern—Dr. McKay* and appropriate staff.

Tumor Clinic Board—Dr. Mackay*; Drs. Amidon; Coon; Cunningham; Maeck; Morrow; Newhall; Soule; Van Buskirk; Wolf.

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

Subcommittees of the Executive Committee:

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

Library—Drs. W. Chambers*; Lepeschkin; Kunin; R. Smith; Schein; Miller. (Sichel; Withrow; Haviland, ex officio)

Postgraduate Education—Dr. French*; L. Levin; J. Bates; Brooks; Hanna; Page; Durfee; Wilson.

Third-Year Lecture Committee—Drs. S. Allen*; Heisse; Minor; Brazell; Wallman; Gjessing.

* 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.

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.
REQUIREMENTS FOR ADMISSION

The scholastic requirements for admission to the College of Medicine are four years of college work done in an institution listed among the "Approved Colleges of Arts and Sciences," compiled and published by the Council on Medical Education and Hospitals of the American Medical Association. The College of Medicine requires one year each of:

- Biology
- English
- Physics (including laboratory)
- General Chemistry
- Organic Chemistry
- Quantitative Chemistry (a satisfactory one semester course)

The College strongly recommends additional courses in English, Mathematics (at the college level), and in such other subjects as will tend to provide the student with the opportunity to study in depth one or more fields of interest to him.

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.
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 the other New England states, especially those from Maine and New Hampshire.
3. Qualified residents of other areas.

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.

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

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<tr>
<td>Application Fee</td>
<td>$10.00</td>
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<tr>
<td>Fee for late registration</td>
<td>$6.00</td>
</tr>
<tr>
<td>Tuition Fee for each session for Vermont students</td>
<td>$550.00</td>
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<tr>
<td>Tuition Fee for students not residents of Vermont</td>
<td>$1,500.00</td>
</tr>
<tr>
<td>Microscope rental (first and second years)</td>
<td>$40.00</td>
</tr>
<tr>
<td>Osler Clinical Society Fee</td>
<td>$3.50</td>
</tr>
<tr>
<td>Locker Fee for each of first, second and third years</td>
<td>$1.00</td>
</tr>
<tr>
<td>Locker Key Deposit—Paid on admission; refunded end of third year</td>
<td>$1.00</td>
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Room Rent: $300.00 to $450.00
Board: 400.00 to 500.00

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 a member of the University.

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

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, on 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 1958-1959 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.

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

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

ATTENDANCE
a. Attendance upon the exercises assigned for the year is obligatory. Failure to attend 80 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 preceptor and 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 chairman, subject to the approval of the Dean.

REQUIREMENTS FOR GRADUATION

Candidates for the degree of Doctor of Medicine must have reached the age of twenty-one years and must 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 President of the University.

MEDICAL COLLEGE PROGRAM

The formal program of training in the College of Medicine consists of four years. During this period the student is taught 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, residencies, 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.

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, bacteriology, psychopathology, and public health. A conjoint course meets once a week during the second semester in an attempt to relate certain aspects of clinical medicine to the preclinical sciences.

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

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

The curriculum is not static and an active curriculum committee is meeting continually to evaluate the present curriculum and plan changes.

The Commonwealth Fund, Lamb Foundation and U. S. Public Health Service have suggested certain unusual curricular features.

TEACHING FACILITIES

THE COLLEGE OF MEDICINE BUILDING

The College of Medicine occupies a building on Pearl Street at the north end of the College Green. The Administrative Offices of the College and the laboratories of Histology and Bacteriology are located on the first floor of the building. An amphitheatre, with a seating capacity of one hundred and fifty, is on this floor. There is a smaller amphitheatre on the second floor. The Library of the College of Medicine, a division of the University Library, occupies the southwest portion of the second floor. The offices and laboratories of the Department of Biochemistry and of the Division of Experimental Medicine are also on this floor. On
the third floor are the Departments of Anatomy, and Physiology and Biophysics. The Department of Anatomy has a special museum and other facilities for teaching, made possible by generous contributions from Alumni of the College of Medicine.

All departments are equipped with laboratories for research and special technical work. The animal houses, adjacent to the College of Medicine, are used by all departments for research and student teaching. A constant temperature unit is available to all departments for teaching and experimental work.

A building adjacent to the College of Medicine contains the offices and laboratories of the Department of Pharmacology, a medical student lounge, and part of the Department of Preventive Medicine.

Phase I of the new College of Medicine Building located on the eastern edge of the University campus on land provided by the Mary Fletcher Hospital has been completed this year. It contains classrooms, offices and laboratories of the Department of Pathology and research laboratories for the clinical departments. This new construction was made possible by the generous contribution of the alumni body of the University of Vermont College of Medicine and the Health Research Facilities Construction Division of the U. S. Public Health Service.

HOSPITALS

THE MARY FLETCHER HOSPITAL. This general hospital has 231 beds and 36 bassinets. It has been associated with the College of Medicine as a teaching hospital since 1879, and has all types of medical and surgical services. The hospital has a yearly average of approximately 67,000 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 is currently building a convalescent unit and has completed plans for an increase in the number of general hospital beds. The hospital is approved by the American Medical Association for intern training and for residences in anesthesia, medicine, neurology, neurosurgery, obstetrics-gynecology, otorhinolaryngology, pathology, pediatrics, radiology, surgery and urology.

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 is being completed. It is located west of the College Green, and has a capacity of 220 beds.
and 35 bassinets. All the clinical services are represented in the approximately 57,057 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.

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

Fanny Allen Hospital (Winooski)—An 86-bed general hospital.
Putnam Memorial Hospital (Bennington)—A 96-bed general hospital.
Springfield Hospital (Springfield)—A 47-bed general hospital.
Rutland Hospital (Rutland)—A 140-bed general hospital.
Brightlook Hospital (St. Johnsbury)—A 55-bed general hospital.
Veterans Administration Hospital (Sunmount, N. Y.)—A 564-bed tuberculosis hospital, with the teaching program supervised by Dean’s Committee.
Ray Brook State Tuberculosis Hospital (Ray Brook, N. Y.)—A 350-bed tuberculosis hospital.
Vermont State Hospital (Waterbury)—A 1,125-bed state psychiatric hospital.
Brattleboro Retreat (Brattleboro)—A 750-bed mental hospital.

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

The Elizabeth Lund Home—A home for 24 unmarried mothers, used for the teaching of normal obstetrics and newborn care.
St. Joseph’s Orphanage—Ten to fifteen children are observed in weekly sick call. Average census, 125 children.
St. Joseph’s Home—With 35 geriatric patients.
Children’s Home—Approximately 12 children are observed under similar conditions.
THE FAMILY CARE UNIT. The Family Care Unit is located in the Howard Relief Building at 174 Pearl Street (in the center of Burlington). In cooperation with the City to make comprehensive medical care services available to the indigent of Burlington, students participate in the care of these patients under the supervision of the Department of Preventive Medicine. Last year 6,348 home visits and 4,896 clinic visits were made.

DURFEE MEMORIAL CLINIC. The Clinic is located at the Mary Fletcher Hospital. Approximately 10,056 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.

DEGOEBRIAND MEMORIAL OUTPATIENT DEPARTMENT. Four thousand four hundred fourteen visits to general and specialty clinics are made annually. These clinics are supervised by University of Vermont staff members.

PRECEPTORSHIPS IN GENERAL PRACTICE. Selected practitioners about the State accept fourth-year students, on an elective basis, in their homes and offices for one month of experience in general practice.

MEDICAL LIBRARY

The Medical Library is located on the second floor of the College of Medicine Building.

The collection, totalling 15,000 volumes, consists of textbooks, monographs and periodicals in the field of the medical sciences. Approximately 600 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, located 100 yards from the College of Medicine Building.
The College of Medicine maintains a museum with a collection of pathological specimens for use in teaching.

STATE LABORATORY FACILITIES

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

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

DIVISION OF PHOTOGRAPHY

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

**1958-59**

<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>Biochemistry</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>9:00-9:50</td>
<td>Anatomy*</td>
<td>Anatomy</td>
<td>Anatomy</td>
<td>Discussion Groups**</td>
<td>Physiotherapy</td>
<td>Anatomy</td>
</tr>
<tr>
<td>10:00-10:50</td>
<td></td>
<td></td>
<td>Physiology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00-1:50</td>
<td>Anatomy</td>
<td>Free</td>
<td>Physiology (sec. a)</td>
<td>Physiology (sec. b)</td>
<td>Anatomy</td>
<td></td>
</tr>
<tr>
<td>2:00-2:50</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3:00-3:50</td>
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<tr>
<td>4:00-4:50</td>
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</tr>
</tbody>
</table>


**Meet alternate weeks.**
### Second Year Schedule

*First Three-fifths of Year 1958-59*

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:50</td>
<td>Pathology</td>
<td>Bacteriology</td>
<td>Pharmacology</td>
</tr>
<tr>
<td>9:00-9:50</td>
<td>Pathology</td>
<td>Pharmacology</td>
<td>(sec. b)</td>
</tr>
<tr>
<td>10:00-10:50</td>
<td>Pharmacology</td>
<td>Anatomy</td>
<td>Bacteriology</td>
</tr>
<tr>
<td>11:00-11:50</td>
<td>Pathology</td>
<td>Pharmacology</td>
<td>(sec. a)</td>
</tr>
<tr>
<td>12:00-12:50</td>
<td>Pharmacology</td>
<td>Anatomy</td>
<td>Bacteriology</td>
</tr>
</tbody>
</table>

There are some variations in this schedule from week to week.
SECOND YEAR SCHEDULE
Last Two-fifths of Year 1958-59

<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>Course A: Pathology</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course C: Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>9:00-9:50</td>
<td></td>
<td>Course B: Elicitation of Data</td>
<td>Course B: Elicitation of Data</td>
<td>Course B: Elicitation of Data</td>
<td>Course B: Elicitation of Data</td>
<td>Course A: Pathology</td>
</tr>
<tr>
<td>10:00-10:50</td>
<td></td>
<td>Physical Diagnosis</td>
<td>Neurological Diagnosis</td>
<td>History Taking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course A: Public Health</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course B: Elicitation of Data</td>
<td>Course B: Free</td>
</tr>
<tr>
<td>1:00-1:50</td>
<td>Course B: Elicitation of Data</td>
<td>Course A: Psychiatry</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course A: Public Health</td>
<td>Course B: Elicitation of Data</td>
<td>Course A: Conjoint</td>
</tr>
<tr>
<td>2:00-2:50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00-3:50</td>
<td>Course A: Pathology</td>
<td>Free</td>
<td>Free</td>
<td>Course B: Elicitation of Data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00-4:50</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

There are some variations in this schedule from week to week.
THIRD YEAR SCHEDULE
1958-59
Surgical Quarter (12 weeks)
(Other quarters are: Medicine, Pediatrics and Obstetrics)

<table>
<thead>
<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-9:00</td>
<td>Surgical Conference</td>
<td>G. U. Tutor</td>
<td>Fracture</td>
<td>Tutor</td>
<td>Fracture</td>
<td>Surgical Conference</td>
</tr>
<tr>
<td>9:00-10:00</td>
<td>Tutor</td>
<td>Orthopedic Rounds</td>
<td>Neurosurgery</td>
<td>Orthopedic Rounds</td>
<td>Neurosurgery</td>
<td>Orthopedic Conference</td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>One student weekly to x-ray</td>
<td>Special lecture</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>ENT conference</td>
<td>Proctology</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Orthopedic conference</td>
</tr>
<tr>
<td>12:00-1:00</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td></td>
</tr>
<tr>
<td>1:00-2:00</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td></td>
</tr>
<tr>
<td>2:00-3:00</td>
<td>Radiology</td>
<td>Pathological-Surgery Conference</td>
<td>Anesthesiology or Urology</td>
<td>Thoracic Surgery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00-4:00</td>
<td>Chest Conference</td>
<td>Oncology</td>
<td>Anesthesiology or Urology</td>
<td>Thoracic Surgery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00-5:00</td>
<td>x-ray conference</td>
<td></td>
<td>Anesthesiology or Urology</td>
<td>Thoracic Surgery</td>
<td></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.
FOURTH YEAR SCHEDULE
1958-1959

Detail of Rotation

Medicine and Surgery, State Hospital

Outpatient Department, Mary Fletcher Hospital

Outpatient Department, DeGoesbriand Memorial Hospital

Family Care Unit

Tuberculosis, Veterans Administration Hospital, Sunmount, N. Y. or Ray Brook State Tuberculosis Hospital, Ray Brook, N. Y.

Psychiatry, State Hospital, or Brattleboro Retreat

Mixed service—Fanny Allen, Springfield, Putnam Memorial, Brightlook or Rutland Hospitals.

Elective month—with a general practitioner or one of the clinical departments in Burlington.
SUMMARY OF STUDIES 1958-1959

CLASSROOM AND LABORATORY HOURS

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Gross Anatomy</td>
<td>324</td>
</tr>
<tr>
<td>*Biochemistry</td>
<td>214</td>
</tr>
<tr>
<td>Discussion Groups</td>
<td>6</td>
</tr>
<tr>
<td>*Histology and Embryology</td>
<td>148</td>
</tr>
<tr>
<td>*Neuro-anatomy</td>
<td>96</td>
</tr>
<tr>
<td>*Physiology</td>
<td>248</td>
</tr>
<tr>
<td>Psychobiology</td>
<td>32</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td>1,068</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>*Bacteriology</td>
<td>165</td>
<td>165</td>
<td>330</td>
</tr>
<tr>
<td>Conjoint</td>
<td></td>
<td>24</td>
<td>24</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>Psychopathology</td>
<td></td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Preventive Medicine</td>
<td></td>
<td>31</td>
<td>31</td>
</tr>
<tr>
<td><strong>Total hours</strong></td>
<td>501</td>
<td>339</td>
<td>840</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course B</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Elicitation of Data</td>
<td>141</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course C</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Introduction to Clinical Medicine</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total hours for year</strong></td>
<td>501</td>
</tr>
<tr>
<td><strong>575</strong></td>
<td><strong>1,076</strong></td>
</tr>
</tbody>
</table>

CLERKSHIPS

Third Year

The year consists of 48 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 (16 weeks), Pediatrics (8 weeks), Surgery (12 weeks), Obstetrics and Gynecology (12 weeks). The approximate total number of hours is 2,112 (48 weeks x 44 hours).

Fourth Year

This year consists of 36 weeks divided into 9 4-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 1,584 (36 weeks x 44 hours).

*Major subjects.
ORGANIZATIONS

STUDENT COUNCIL

Elected representatives from each class form a student council which meets with the Dean monthly 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 49 N. Prospect St. (Founded 1880)

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

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

Phi Delta Epsilon

THE OSLER CLINICAL SOCIETY

The Osler Clinical Society, which was organized in 1929, is composed of all undergraduate students in the College of Medicine. The society sponsors a series of lectures given by outstanding men in the field of medicine. It is supported by the students. The organization is governed by a board of executive officers elected annually by the members. The president for 1958 is William Knights.

OFFICERS OF THE U. V. M. MEDICAL ALUMNI ASSOCIATION
1958-1959

President—DR. DAVID B. PITMAN, '33, Port Washington, N. Y.
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 undergraduate students the fundamental morphology of the human body correlated with function. In addition, its research projects are concerned with the histology of the kidney in relation to pressor and depressor substances, the developmental mechanics of the vertebrate nervous system and limbs, the investigation of certain anomalies, the electro-physiological investigation of cerebellar nuclei, and a study of the nutritional status of residents of the northeast area.

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

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

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

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

Graduate Courses

Prerequisite—permission of the Department Chairman.

201. Medical Histology. 6 credit hours.
202. Medical Gross Anatomy. 14 credit hours.
301. Special Histology. 4 credit hours.
302. Special Problems in Gross Anatomy. Hours and credit as arranged.
The primary objective of the course in Medical Bacteriology is to impart to the student an understanding of the fundamentals of infectious disease. Accordingly, 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, and a course in Bacteriology for students in the School of Dental Hygiene. Research in the areas of Virology and Immunology occupy the time of the staff members which is not devoted to teaching. While the members of the department have no formal responsibility for clinical teaching, they do participate in clinical conferences on infectious disease problems.

Undergraduate preventive medicine and public health are taught in the second and fourth years. In the second year, lectures, demonstrations and field trips introduce the student to the subject and the organization and function of the various agencies concerned with the health of the community. Methods used to control the spread of communicable disease and problems relating to the overall health and general well-being of the population are considered in this course.

In the fourth year, 20 hours of conference are held with two groups of students during their 4-week services at the Burlington hospitals. These exercises deal with the natural history of disease as a basis for developing a preventive approach to disease control.

* Resigned as of November 1, 1958.
Communicable disease, diseases of later life, long-term illness, and cancer, for example, are considered individually and in detail. The structure and organization of medical care facilities are analyzed. In addition, the clinical teaching program includes the preventive aspects of disease. The students are assigned to the home care service and develop a liaison with the Howard Family Service Society, Visiting Nurses Association, and the Vermont Association for the Crippled. In addition, they come in contact with the Vermont Tuberculosis Association and the various divisions of the State Health Department.

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

Formal graduate study in bacteriology consists of the following courses:

**Graduate Courses**

**Prerequisite**—permission of the Department Chairman.

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

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

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

302. Special Problems in Immunology. Minor investigations in immunology and serology designed to serve as an introduction to research.

Prerequisite—Medical bacteriology or its equivalent. 2 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.
THE DEPARTMENT OF BIOCHEMISTRY

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

Associate Professors of Biochemistry: GJESSING, LAMDEN, SCHEIN.

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 teach undergraduate students the subject material in biochemistry. Specific research is being conducted on human nutrition, protein metabolism, metabolism of purines and pyrimidines, enzymes, connective tissue, endocrinology, growth factors and water and electrolyte balance.

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

There are eight senior and five junior members. Three members have joint appointments with the Department of Medicine.

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

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

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

The Department of Biochemistry offers a graduate program leading to the Master of Science degree. Also, a program leading to the Doctor of Philosophy degree is offered jointly by the Departments of Biochemistry and Agricultural Biochemistry.
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 course presents a survey of enzymes including: classification, general properties and physical chemistry; methods of isolation, purification and assay; individual enzymes and their integration in biologic phenomena.

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

**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.

**321, 322. Food and Nutrition**

Topics to be discussed include composition of foods, processing and preservation of foods, the nutrition problem as it exists locally and throughout the United States, functions and requirements of dietary components and nutrition in health and disease.

Lectures and seminars, 2 x 1 hour per week. Offered either first or second semester. Open to all properly qualified students. 2 credit hours.

**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. Laboratory 1 x 4 hours per week. 5 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 x 1.5 hours per week.

Laboratory, 1 x 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 x 1 hour per week. Open to all properly qualified students. 2 credit hours.

382. Seminar

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

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

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.

Prerequisite—Bachelor's degree in Chemistry. 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 broad 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 instructors.

It is accepted that a well-balanced department, capable of training physicians adequately must have personnel, space, and equipment. Such a department must teach, do research, and care for patients. A balance should result in understanding 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 thus gained, 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 forty-three. Staff
members are carefully chosen and are certified by their respective Boards. The Junior men are either members of, or eligible for their Boards. Investigation is being done in renal, pulmonary metabolic and cardiac function, both in health and disease.

An integral part of the Department is a well-equipped cardio-pulmonary laboratory which is supported by the College of Medicine, the Vermont Heart Association, the Vermont Tuberculosis and Health Association and the Mary Fletcher Hospital. Its Director is a full-time member of the Department.

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. It is hoped that the student will be exposed to total patient care.

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: DAILY (Chairman).
Assistant Professor of Clinical Dermatology: FLOWER.

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

Both members of the staff are diplomats of the American Board of Dermatology and Syphilology, Fellows of the American Academy of Dermatology and Syphilology, and of the Montreal and New England Dermatological Societies. Both staff members are part-time personnel.
Beginning in the academic year 1953-54, the Division adopted a program of instruction for third-year students in the offices of the members of the staff. Each student spends one full week on a preceptorial basis in the office of one of the members of the staff, seeing a variety of dermatoses in the office surroundings in which such patients are customarily seen. This is supplemented by a small number of lectures on current dermatologic developments.

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

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

DIVISION OF EXPERIMENTAL MEDICINE

Professor of Experimental Medicine: RAAB (Chairman).
Associate Professors of Experimental Medicine: LEPELSCHERKIN, ROBERTSON (also Professor of Biochemistry).
Assistant Professor of Experimental Medicine: 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 and metabolic problems.

Aided by grants from the U. S. Public Health Service, the American 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 in cardiac health; correlation of the electrocardiogram with body build; study of the role of ascorbic acid in the synthesis of collagen and mucopolysaccharides; hormonal effects on connective tissue.

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

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

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 symposia for graduate in cardiology and endocrinology.

DIVISION OF NEUROLOGY

Professor of Neurology: SCHUMACHER (Chairman).
Associate Professor of Clinical Neurology: STEPHENSON (Electroencephalography), (also Assistant Professor of Clinical Psychiatry).
Assistant Professor of Clinical Neurology: MARTIN.
Instructor in Clinical Neurology: MARSHALL, McKee.

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. In addition, the Division is engaged in research in the field of nervous system disease.

The undergraduate teaching program is spread over the second, third and fourth years. During the second year, the emphasis is on the techniques of examination, the common methods of eliciting and analyzing data, and training in neurological diagnosis. Didactic lectures are given in order to provide better understanding of and guidance in the carrying out of the neurological examination. Opportunity is provided to small groups of students for performance of a complete neurological examination on each other and on patients with nervous system disease.

During the third year several lectures are given to the entire class in order to provide broad orientation in the field of nervous system disease. No attempt is made to present didactically a series of individual disease syndromes. In addition, during the clinical clerkship on medicine, the student is assigned at regular intervals and in rotation all service patients and selected private patients admitted to the neurological service. These patients are presented by the students at the regular weekly neurological conference held
for the clinical clerk 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 Outpatient 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 service 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: CHITTICK (Chairman).
Associate Professor of Clinical Psychiatry: YOUNG.
Assistant Professor of Clinical Psychiatry: BROOKS, STEPHENSON.
Instructors in Clinical Psychiatry: CARON, COHEN, FOREST, MARSHALL.
Instructor in Clinical Psychology: ELDRED.
Clinical Associate in Psychiatry: TOMPKINS.
Social Worker: STEARN.

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

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

The chairman is the Director of the Vermont State Hospital at Waterbury. Staff members have been trained at the Institute of Living in Hartford, the Menninger Clinic, the McLean Hospital in Boston, and the Westchester Division of the New York Hospital.

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. The fourth-year students also work in the mental health clinic in Burlington.

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.
A thorough understanding of the basic science and principles, and an appreciation of the art of obstetrics and gynecology is the fundamental objective of this department. As the student progresses from college, to internship, to residency so is he given more problems and greater responsibilities. Teaching is directed to develop within the student the abilities to practice obstetrics as a family physician in this or in any other state. The additional training in the resident program fully qualifies a man for examination by the American Board of Obstetrics and Gynecology. The application of the student for fellowship while on the house staff level or beyond is encouraged.

Although postgraduate education is available in conferences, meetings, and lectures, a more fully developed and complete postgraduate series is anticipated for the future. The members of the teaching faculty are all graduates of recognized institutions and they are all certified by the American Board of Obstetrics and Gynecology or are qualified for certification. Their institutions of training are represented by Columbia University College of Physicians and Surgeons; Sloane Hospital for Women; Cornell University Medical College and New York Lying-In Hospital; Lincoln Hospital; Woman's Hospital of the State of New York; Yale Medical School; and the associated hospitals of the University of Vermont College of Medicine.

An active research staff, with adequate laboratory facilities in the hospitals, is interested in the further investigation of basic obstetrical and gynecological problems particularly as they apply to this State. They are similarly devoted to the student who is interested in the way of scientific research. Past and present investigative problems include those involving pelvic anatomy, the evaluation of specific drugs, renal function in pregnancy, endometrial hyperplasia, evaluation of treatment of endometrial malignancy in this community, and others. Members of the faculty
work in close cooperation and serve as consultants to the State Department of Health. All faculty members are available for consultant services to physicians throughout the state at any and all times. Support for research projects has been obtained from the United States Public Health Service; National Research Council; Eaton Laboratories; Vermont State Cancer Society, and private bequests.

The residency program includes training in the associated hospitals of Burlington and the Boston Lying-In Hospital for a total of four years. The latter year includes advanced training in the specialty and the opportunity for more active participation in the teaching program. All members of the attending staff at the associated Burlington hospitals are members of the faculty of the College of Medicine.

Obstetrics is taught in the second semester of the second year by correlated didactic lectures. Gynecology and obstetrics are taught primarily in the third year. Classes are divided into four groups each with the department for a period of twelve weeks. Instruction is given in daily tutorial sessions, work in outpatient clinics, in-patients, and delivery rooms and is presented by all members of the department including the resident staff. The student is made to feel that he may take his problem to a member of the faculty soon after it arises for discussion and constructive criticism. The course is continued in the fourth year and consists primarily of outpatient clinic teaching with limited refresher experience in the delivery room and post partum wards during the time that the student is assigned to the Burlington hospitals. Instruction in ante partum care is given at the Elizabeth Lund Home and a senior student is on call for deliveries at that institution. Regular rounds, conferences, discussions, and seminars are held at regular daily, weekly, or monthly intervals.

Examinations are held at the end of the semester in the second year, at the end of each quarter in the third year, and at the end of the second semester in the fourth year. Examinations usually are combined oral and comprehensive written.
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: HEISSE.

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.

Members of the staff have trained at Massachusetts Eye and Ear Infirmary, Lakeside Hospital and Eye Institute of Columbia-Presbyterian Hospital, St. Luke's Hospital, New York, and Mercy Hospital, Baltimore. The staff personnel are all part-time.

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

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.

Four members of the staff are certified by the American Board of Ophthalmology or Otolaryngology. Several of the department members are members of the New England Ophthalmology and Otolaryngology Society, the American Academy of Ophthalmology and Otolaryngology, and the American Broncho-Esophagological Association. Papers have been presented before the sectional and national societies. One member has been an Associate Examiner for the American Board of Ophthalmology.
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, creates 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 slide loan 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. Certain members of the staff of the Department of Medicine also participate in this phase of the teaching. 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 methods 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, cerebrospinal 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 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 an assigned 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.
Instructors in Clinical Pediatrics: McKee, D. MORROW, PAXSON, WORTHINGTON.

The Department of Pediatrics directs its teaching to medical students and attempts to improve the standards of pediatric practice, particularly among general practitioners in Vermont. In addition, research projects are under way, all in the field of heart disease in children and of liver function in the newborn.
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 an eight-week clinical clerkship during the third year and participates in three outpatient clinics weekly during twelve weeks of the fourth year. Additional pediatric experience is gained during the fourth year through participation in a home care program, a preceptorship with a general practitioner in a rural area and a clerkship in a selected community hospital. The Department takes the responsibility for pediatric training of rotating interns and pediatric residents in the Burlington hospitals.

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

THE DEPARTMENT OF PHARMACOLOGY

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

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.

Research laboratories are maintained for work in the fields of cardiovascular physiology and pharmacology, pharmaco-chemistry, histochemistry, and the pharmacology of the autonomic nervous system. An extensive research program (sponsored by the National Heart Institute) for analysis of the effects of radiation upon biological functions is also in progress. Other research activities are sponsored by grants from the U. S. Public Health Service, the American Heart Association, and the National Science Foundation.

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

**Graduate Courses**

**Prerequisite**—Permission of 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.

**391, 392, 393, 394. Thesis Research.**

Investigation of an original research topic under the direction of a qualified staff member, culminating in an acceptable Master’s thesis. Credit as arranged.

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**THE DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS**

*Professor of Physiology and Biophysics*: SICHEL (Chairman).

*Associate Professor of Physiology and Biophysics*: A. CHAMBERS.

*Assistant Professor of Physiology and Biophysics*: WILSON*.

*Instructor in Physiology*: BLOUNT.

*Associate in Biophysics*: PETERSON (also Associate Professor of Clinical Radiology).

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

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.

*On leave of absence January 16, 1958 to October 16, 1958 as Guggenheim Fellow.*
and physical. Physiological principles fundamental to clinical medicine are examined on the basis of supporting experimental evidence. Instruction is given throughout the first year, mainly by means of lectures, laboratory classes and demonstrations. The laboratory work is of a quantitative nature wherever feasible; in almost half of the experiments the student also acts as subject.

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

**Graduate Courses**

*Prerequisite—Permission of 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. *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. *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.


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

* On leave
THE UNIVERSITY OF VERMONT

THE DEPARTMENT OF RADIOLOGY AND PHYSICAL THERAPY

Professor of Radiology: SOULE (Chairman).
Associate Professors of Clinical Radiology: PETERSON (also Associate in Biophysics), VAN BUSKIRK.
Assistant Professors of Clinical Radiology: TOBEY, GUARE, W. JOHNSTON, SAXBY.
Instructors in Clinical Radiology: V. JOHNSTON, SAXBY.
Instructor in X-ray Technique: BANNISTER.
Clinical Associate in Radiology: TSENG.

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.

Research projects include the development and design of a rotational x-ray therapy unit (supported by grants from the National Cancer Institute), study of new techniques in diagnosis of intestinal cancer, plane-scanning techniques in brain tumor localization, studies in improved techniques in radiation safety, use of cine-roentgenography in angiocardiography and cerebral angiography.

Seven 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 Professors of Clinical Surgery: GLADSTONE, TRUAX.
Assistant Professor of Surgery: PAGE.
Assistant Professor of Clinical Surgery: KELLER.
Instructor in Surgery: HAINES (Oncology).
Instructors in Clinical Surgery: BARNEY (Plastic), CAIN, CRANDALL, LYNCH (Industrial), McGILL, PACHE, SHEA, L. THABAULT.

The Department offers introductory training in disciplines, leading to a firm foundational knowledge of the science of surgery. It is planned that the personnel of the Department will play an active part in carrying out the programs of the Surgical Section of the Vermont State Medical Society, the regional and national meetings of the American College of Surgeons, the New England Surgical Society, and other related associations. Research and the writing of surgical literature is encouraged through the availability of the animal operating facilities, the medical library, and free exchange of ideas among department personnel. A monthly journal club, conducted by the junior members of the Department, with the supervision of the senior members, stimulates interest and criticism of current surgical literature and acts as an excellent supportive exercise for resident training. The training of surgical residents is an integrated part of the Department's work, such residents holding appointments in local hospitals and having their training integrated with the personnel of the undergraduate level under the direction of the junior and senior staff.

All senior members of the staff are American Board certified surgeons and Fellows of the American College. All junior members are either already certified or in the process of completing their qualifications. Fields of special interest are well represented, including surgery of the head and neck, chest, gastric and biliary tracts, gastro-intestinal surgery, and surgery of the colon and rectum, as well as peripheral vascular diseases and other fields. Eight individuals are geographically full-time, and other personnel, in outlying hospitals, are associated in their work in undergraduate teaching.

The science of surgery is introduced in the second-year course. The fundamental concepts of surgical practice are emphasized, including panel discussions, lectures, slide projection, and movie film presentations, as well as observation of patients.
In the third year, the undergraduate becomes intimately associated with patients through direct assignment, and individual supervision is given through a tutor, who is responsible for the students’ comprehensive coverage of the basic subjects in surgery. This teaching is supplemented with department conferences, clinicopathological conferences, specialty conferences, panel discussions, ward rounds, and patient interviews. Examinations, which are oral and written, are given at the end of this period of instruction.

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

The 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).
Instructors in Clinical Anesthesiology: DENTE, FUKUDA, MILLS.

The aim of this Division is to furnish anesthesia services encompassing the clinical work of both the teaching hospitals associated with the University. The Divisional activities also extend their clinical services to the outlying hospitals on a consultant basis.

All members of the Division are certified by or eligible for the American Board of Anesthesiology, and take an active part in the research program.

Undergraduate teaching consists of twelve lectures, given two times yearly, to the third year class of medical students, and per-
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 five residents for a period of two years each, who rotate through both hospitals.

Research laboratories including those concerned with radioisotopes are under the supervision of one of the attending anesthesiologists, who devotes full time to this work.

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.

The staff consists of two full-time surgical neurologists and nurses trained in the care of patients with neurological disorders.

As much time as possible has been allotted to research. This program should be greatly expanded as rapidly as funds become available. Students may gain valuable experience in this program.

Third-year students during the quarter on surgery meet in small clinical conferences, in neuro-pathological conferences, and serve as clinical clerks.

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.

The Department provides 24-hour consultation service throughout Vermont, northern New Hampshire and northeastern New York.
The aim of the Division is to promote the principles of orthopedic surgery on all levels of teaching, whether by organized instruction, rounds, and case work with students, interns, and residents, or by conferences, consultation, and formal presentations to doctors and other personnel concerned with health. The Division maintains an active interest in problems of orthopedic investigation and research but prefers to emphasize the application of orthopedic surgery to the practice of general medicine.

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

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

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

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

In general this Division concerns itself primarily with problems that pertain to the various structures located within the thoracic cage.

An active teaching program is maintained which includes undergraduate instruction as well as surgical residency training.
During each surgical resident's third year, he spends four-months' duty on the Thoracic Surgical Service.

This Division does its own diagnostic endoscopy and works in close cooperation with the Division of Otolaryngology in the Department of Ophthalmology and Otolaryngology. The Thoracic Surgical Service of both teaching hospitals is staffed by this Division, as well as the thoracic surgery departments for the two tuberculosis hospitals for the State of Vermont. Research is an important part of the program.

DIVISION OF UROLOGY

Associate Professor of Clinical Urology: POWELL (Chairman).
Assistant Professor of Clinical Urology: FAGAN.
Instructors in Clinical Urology: ESPOSITO, FRANCESCHI.

The staff is composed of four members, as noted above. Three members are certified by the American Board of Urology and the fourth member is in the process of completing his examinations. All members are part-time, and all take an active part in the teaching program.

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. Fourth-year students are particularly active on the wards and in the outpatient departments. They are occupied with patient study, weekly urological rounds, observation in cystoscopy and operating rooms.

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

A four-year approved urological residency program is in effect. At present there is a resident in the first year of that program.
An important and growing part of the activities of the various departments of the College of Medicine and its affiliating institutions include services not only to the local area but to Vermont, Maine and New Hampshire.

In order that the College of Medicine may continue to grow in its educational, research and service programs, Phase I of the new College of Medicine building has been completed and represents a small part of the $8,000,000 project pictured on the back page of this catalogue.
PERSONNEL

COLLEGE OF MEDICINE

FACULTY AND OTHER OFFICERS

PROFESSORS EMERITI

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

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

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

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

WILLIAM EUSTIS BROWN  Professor Emeritus of Preventive Medicine

OLIVER NEWELL EASTMAN  Professor Emeritus of Gynecology
M.D., University of Vermont, 1908.

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

CLARENCE HENRY BEECHER  Professor Emeritus of Medicine
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WILLIAM EUSTIS BROWN  Professor Emeritus of Preventive Medicine

OLIVER NEWELL EASTMAN  Professor Emeritus of Gynecology
M.D., University of Vermont, 1908.

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

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

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

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

FERDINAND JACOB MORRIS SICHEL  Professor of Physiology and Biophysics

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

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

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

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

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

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

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

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

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

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

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

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

WILLIAM VAN BOGAERT ROBERTSON  Professor of Biochemistry
M.E., Stevens Institute of Technology, 1934; Ph.D., University of Freiburg, 1937; Associate Professor of Experimental Medicine
GEORGE ANTHONY WOLF, JR.  Professor of Clinical Medicine
B.S., New York University, 1936; M.D., Cornell, 1941.

DURWOOD JAMES SMITH  Professor of Pharmacology
A.B., Syracuse, 1938; M.D., 1941.

ROBERT JAMES MCKAY, JR.  Professor of Pediatrics
A.B., Princeton, 1939; M.D., Harvard, 1943.

ROBERT WILLIAM COON  Professor of Pathology
B.S., North Dakota State College, 1942; M.D., University of Rochester, 1944.

JOHN VAN SICKLEN MAECK  Professor of Obstetrics and Gynecology
B.S., University of Vermont, 1936; M.D., 1939.

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

ASSOCIATE PROFESSORS

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

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

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
A.B., Yale, 1931; M.D., Harvard, 1935.

*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
A.B., Swarthmore, 1936; Ph.D., University of Pennsylvania, 1942.

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

LEONARD VINCENT CROWLEY  Associate Professor of Pathology
M.D., University of Vermont, 1949.

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

ERLAND CHENEY GJESSING  Associate Professor of Biochemistry
B.S., Copenhagen, 1936; M.S., Michigan State, 1938; Ph.D., Cornell, 1942.

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

* On leave September 1, 1958 to August 1, 1959.
CALVIN HANNA  Associate Professor of Pharmacology
B.S., University of Illinois, 1949; M.S., State University of Iowa, 1950; Ph.D., 1953.

JANE YARD HARSHBERGER  Associate Professor of Public Health

ROY KORSON  Associate Professor of Pathology

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

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

LEON ROBERT LEZER  Associate Professor of Preventive Medicine
B.S., University of Vermont, 1939; M.D., 1942; M.P.H., Harvard, 1954.

DONALD BARKER MILLER  Associate Professor of Clinical Surgery (Thoracic and Cardiac)
A.B., Johns Hopkins, 1938; M.D., 1942.

RUFUS CLEGG MORROW, JR.  Associate Professor of Otolaryngology
B.S., Davidson College, 1934; M.D., Duke, 1939.

OSCAR SYLVANDER PETERSON, JR.  Associate Professor of Clinical Radiology and Associate in Biophysics
M.D., University of Vermont, 1936.

PLATT RUGAR POWELL  Associate Professor of Clinical Urology
B.S., University of Vermont, 1936; M.D., 1939.

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

ETHAN ALLEN HITCHCOCK SIMS  Associate Professor of Medicine and Clinical Biochemistry
B.S., Harvard, 1938; M.D., College of Physicians and Surgeons, Columbia University, 1942.

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

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

CHARLES WATTLES STEPHENSON  Associate Professor of Clinical Neurology (Encephalography) and Assistant Professor of Clinical Psychiatry
A.B., Williams, 1910; M.D., Harvard, 1922.

RALPH DANIEL SUSSMAN  Associate Professor of Clinical Pediatrics
B.S., University of Vermont, 1935; M.D., 1938.
CHRISTOPHER MARLOWE TERRIEN Associate Professor of Clinical Medicine
M.D., University of Vermont, 1936.

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

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

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

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

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

ASSISTANT PROFESSORS

RICHARD WALKER AMIDON Assistant Professor of Clinical Medicine
B.S., University of Vermont, 1941; M.D., 1943.

ROBIN FRANCIS BADGLEY Assistant Professor of Medical Sociology (Preventive Medicine)

JAMES HENRY BANNON Assistant Professor of Clinical Medicine
M.D., C.M., McGill, 1940.

GEORGE WILSON BROOKS Assistant Professor of Clinical Psychiatry
B.S., University of New Hampshire, 1941; M.D., University of Vermont, 1944.

*JEAN BULLOCK Assistant Professor of Medical Social Service (Preventive Medicine)
B.S., Akron, 1947; M.S., Western Reserve, 1949.

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

WILBERT FRANKLIN CHAMBERS Assistant Professor of Anatomy
A.B., University of West Virginia, 1945; M.S., 1946; Ph.D., University of Wisconsin, 1952.

BENJAMIN FRANKLIN CLARK Assistant Professor of Clinical Obstetrics and Gynecology
B.S., University of Vermont, 1930; M.D., 1931.

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

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.

* On leave September 1, 1958 to September 1, 1959.
ARTHUR HOWARD FLOWER, JR. Assistant Professor of Clinical Dermatology
A.B., Heidelberg, 1938; M.D., Duke, 1942.

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

HOWARD THEODORE GUARE Assistant Professor of Clinical Radiology
M.D., University of Vermont, 1934.

ELBRIDGE EUGENE JOHNSTON Assistant Professor of Clinical Medicine
M.D., University of Vermont, 1936.

JACK PHILIP KEEVE Assistant Professor of Preventive Medicine

JAY EDGAR KELLER Assistant Professor of Clinical Surgery
M.D., University of Vermont, 1940.

FRIEDRICH WILHELM KLEMPERER Assistant Professor of Clinical Medicine
M.D., University of Freiburg, 1932.

RAYMOND FRANK KUHLMANN Assistant Professor of Clinical Orthopedic Surgery
B.A., University of Wisconsin, 1936; M.D., Washington University, 1939.

MRS. KATHERINE LAUGHTON LADD Assistant Professor of Biostatistics (Preventive Medicine)
B.A., University of Western Ontario, 1954; M.S., 1956.

MORRIS WILLIAMS LAMBIE Assistant Professor of Clinical Medicine
B.S., Harvard, 1942; M.D., University of Rochester, 1946.

LOWELL STERN LEVIN Assistant Professor of Health Education (Preventive Medicine)

JEROLD FRANCIS LUCEY Assistant Professor of Pediatrics
A.B., Dartmouth, 1948; M.D., New York University, 1952.

KATHERINE MACDONALD Assistant Professor of Public Health Nursing (Preventive Medicine)
B.S., Dalhousie, 1935; M.N., Yale, 1939; M.S., Western Reserve, 1953.

*WILLIAM HOOPER MACMILLAN Assistant Professor of Pharmacology
A.B., McGill, 1948; Ph.D., Yale, 1954.

HERBERT LLOYD MARTIN Assistant Professor of Clinical Neurology
B.S., Boston University, 1947; M.D., 1950.

INA MAXSON Assistant Professor of Medical Technology and Assistant in Clinical Pathology
B.S., Battle Creek College, 1926; M.S., Michigan State College, 1934.

MAY MCMLLAN  Assistant Professor of Nutrition
B.S., Mount Allison University, 1929; (Preventive Medicine)
M.A., Teachers College, Columbia, 1933; M.S., 1952.

EDWARD DOUGLAS MCSWEENEY  Assistant Professor of
A.B., University of Vermont, 1919; M.D., 1922.

EDWARD DOUGLAS MCSWEENEY  Assistant Professor of
A.B., University of Vermont, 1919; M.D., 1922.

HAROLD EDWARD MEDIVETSKY  Assistant Professor of
B.S., University of Vermont, 1929; M.D., 1932.

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

CHARLES HENRY OREY  Assistant Professor of Bacteriology
A.B., Arkansas State College, 1936; M.S., University of Tennessee, 1943;
Ph.D., Yale, 1950.

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

HENRY MACK PARRISH  Assistant Professor of Preventive
B.S., Wake Forest College, 1949; M.D., University
of Pennsylvania, 1953; M.P.H., Yale, 1956.

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

JOHN DOWNING RICE  Assistant Professor of Pathology
B.Ch.E., New York University, 1943; M.D., Yale, 1953.

DIGHTON FRANCIS ROWAN  Assistant Professor of Bacteriology

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

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

KENNETH MORTON SMITH  Assistant Professor of Medical
A.B., Bates, 1949; M.S., in Social Work,
College of William and Mary, 1952.

BORYS SURAWICZ  Assistant Professor of Experimental Medicine
and Instructor in Clinical
M.D., Medical School, Wilno, Poland, 1939.

BURTON SAMUEL TABAKIN  Assistant Professor of Medicine
A.B., University of Pennsylvania, 1943; M.D., 1947.

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

*Resigned November 1, 1958.
**Deceased September 30, 1958.
MARSHALL COLEMAN TWITCHELL, JR., Assistant Professor of Ophthalmology
A.B., Williams, 1934; M.D., Harvard, 1938.

MARTIN WESLEY WILLIAMS Assistant Professor of Pharmacology
A.B., Anderson, 1948; Ph.D., Ohio State, 1953.

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

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

VISITING STAFF

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

INSTRUCTORS

RALPH BANNISTER Instructor in X-ray Technique

BERNARD BENJAMIN BARNEY Instructor in Clinical Surgery
B.S., University of Vermont, 1941; M.D., 1943.

DON HOUSTON BLOUNT Instructor in Physiology

JOHN DOUGLAS BOARDMAN Instructor in Clinical Obstetrics and Gynecology
A.B., Holy Cross, 1945; M.D., University of Vermont, 1948.

RICHARD EMILE BOUCHARD Instructor in Medicine
M.D., University of Vermont, 1949; M.S., 1951.

MARY BREEN Instructor in Medical Technology (Pathology)
B.S., University of Vermont, 1947.

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

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

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

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

ALBERT JAMES CRANDALL Instructor in Clinical Surgery
B.S., University of Vermont, 1930; M.D., 1933.

PHILIP HOVEY DAVIS Instructor in Clinical Orthopedic Surgery
B.S., University of Vermont, 1950; M.D., 1953.

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

HERBERT ASHLEY DURFEE, JR. Instructor in Clinical Obstetrics and Gynecology
B.S., Yale, 1944; M.D., University of Vermont, 1948.

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

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

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

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

DAVID MINORU FUKUDA  Instructor in Clinical Anesthesia
M.D., Kyusku Imperial University, 1946.

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

JOHN SHERWOOD HANSON  Instructor in Medicine
B.A., Yale, 1951; M.D., New York University, 1954.

JOHN WILBUR HEISSE, JR. Instructor in Clinical Otolaryngology
A.B., Johns Hopkins, 1949; M.D., University of Maryland, 1953.

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

DWIGHT JEROME KRESGE  Instructor in Preventive Medicine
M.D., Temple, 1953; (General Practice)

ARTHUR SAUL KUNIN  Instructor in Medicine and in Clinical Biochemistry
A.B., Columbia, 1948; M.D., University of Vermont, 1952.

BETTY MAY LAGRANGE  Instructor in Clinical Biochemistry
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CLARE KENT MARSHALL  Instructor in Clinical Psychiatry and in Clinical Neurology

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

MARION CLAIRE MCKEE  Instructor in Clinical Neurology
B.A., Hunter, 1949; M.D., Temple, 1953; and in Clinical Pediatrics

ERNEST LEE MILLS  Instructor in Clinical Anesthesia
B.S., University of Vermont, 1938; M.D., 1942.
HENRY DAVIS MINOT, JR. Instructor in Clinical Surgery (Thoracic and Cardiac) A.B., Harvard, 1941; M.D., 1950.

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

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


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.

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 THABAUT Instructor in Clinical Surgery M.D., University of Vermont, 1930.

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

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

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

RESIDENTS AND FELLOWS

RICHARD MACDONALD ADAMS Resident in Radiology B.S., Union, 1949; M.D., University of Vermont, 1953.

DEWEES HAROLD BROWN Resident in Medicine M.D., University of Vermont, 1954.

ALBERT ALDEN CARPENTER Resident in Medicine B.S., University of New Hampshire, 1950; M.D., McGill, 1954.

STIRLING HAINES CARPENTER Resident in Pathology A.B., Princeton, 1950; M.D., Temple, 1957.
Aveolis Cetin
M.D., Istanbul University, 1955. Resident in Anesthesiology

Norma Vesey Colclough
B.S., Syracuse, 1957. Fellow in Pharmacology

Timothy James Driscoll, Jr.
B.S., University of New Hampshire, 1950; M.S., 1951; M.D., University of Vermont, 1955. Resident in Pediatrics

Philip Edward Emerson
B.S., Springfield, 1941; M.A., Clark, 1943; M.D., University of Vermont, 1956. Resident in Anesthesiology

Henry Charles Forrester
B.S., University of Vermont, 1952; M.D., 1955. Resident in Radiology

Eugene Shedden Farley, Jr.
B.A., Swarthmore, 1950; M.D., Rochester, 1954. Resident in Medicine

Stokes Gentry

Ruhi Khalil Hindawi
A.B., American University of Beirut, 1948; M.D., 1952. Resident in Surgery

Ching-Hsin Ho
M.D., National Taiwan University, 1951. Resident in Anesthesiology

Martin Jonas Koplewitz
B.S., Queens, 1948; M.D., University of Vermont, 1952. Resident in Surgery

Karl-Heinz Kurt Kosse
M.D., Free University of Berlin, 1956. Resident in Urology

Thomas Eugene Lavell, Jr.
A.B., Cornell, 1949; M.D., New York University, 1953. Resident in Surgery

Harry Walter Letts
B.Sc., Sir George Williams College, 1952; M.D., Ottawa, 1957. Resident in Pathology

Arthur Maurice Levy

Harold Pons Lipton
M.D., Duke, 1955. Resident in Radiology

George Galli Lucchina Fellow in Physiology and Biophysics
B.S., University of Vermont, 1955; M.D., 1958.

Huntington Mavor

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PHILIP GARDNER MERRIAM
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M.D., Teheran Faculty of Medicine, 1956. Resident in Pediatrics

WESLEY JOSEPH PELKEY
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Helen Hay Whitney Research Fellow in Biochemistry and Experimental Medicine

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Winston Milo Eddy  
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M.D., Tufts, 1935.

CHIN-JO TSENG  Clinical Associate in Radiology
M.D., Kiangi Provincial Medical College, 1949.

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LOUIS joseph Wainer  Clinical Associate in Medicine and in Preventive Medicine (General Practice)
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MAURICE JAMES WALsh  Clinical Associate in Medicine
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LELON Ashley Weaver, Jr.  Research Associate in Experimental Psychology
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
MARY Bromer Fell, B.A., M.S., Medical Cataloger

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

OCCUPATIONAL THERAPIST SUPERVISER
MARIE Loretta McCann, R.N., O.T.R.

PHYSIOTHERAPIST
MRS. SALLY wood, B.S.

SOCIAL WORKERS
WILLIAM Thomas Bird  Social Worker
B.S., Niagara, 1950.

MRS. JEANNE STEARN  Social Worker
A.B., University of Pittsburgh, 1932.

ASSISTANTS
MRS. REBA J. Beecher, R.N.  Research Assistant in Medicine
MRS. LEONA Bessee, R.N.  Research Assistant in Medicine
JOHN Jerome Brink  Graduate Assistant in Biochemistry
B.S., University of the Orange Free State, 1955.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>NANN WHITFIELD CISNEY</td>
<td>Research Assistant in Pharmacology</td>
</tr>
<tr>
<td>ROSEMARY ANN EMERY</td>
<td>Research Assistant in Biochemistry</td>
</tr>
<tr>
<td>WILDA ROMAYNE GIGEE</td>
<td>Research Assistant in Experimental Medicine</td>
</tr>
<tr>
<td>RICHARD GREIST</td>
<td>Research Assistant in Anatomy</td>
</tr>
<tr>
<td>CHARLES EUGENE GRIFFITH</td>
<td>Technical Research Assistant in Psychiatry</td>
</tr>
<tr>
<td>GRETCHEN HEBB</td>
<td>Research Assistant in Physiology and Biophysics</td>
</tr>
<tr>
<td>MRS. JEAN RYAN HEWITT</td>
<td>Research Assistant in Experimental Medicine</td>
</tr>
<tr>
<td>MRS. LORRAINE KORSON</td>
<td>Research Assistant in Experimental Medicine</td>
</tr>
<tr>
<td>MRS. LEWES AUSTIN MATHIES</td>
<td>Research Assistant in Pathology</td>
</tr>
<tr>
<td>DAVID HERBERT MCDERMOTT</td>
<td>Research Assistant in Biochemistry</td>
</tr>
<tr>
<td>MRS. PATRICIA B. MCHUGO</td>
<td>Research Assistant in Pharmacology</td>
</tr>
<tr>
<td>EDWARD FREDERICK MERRILL</td>
<td>Teaching Assistant in Biochemistry</td>
</tr>
<tr>
<td>MRS. BRENDA L. MORRISON</td>
<td>Teaching Assistant in Biochemistry</td>
</tr>
<tr>
<td>MRS. DOROTHY WRIGHT NEWTON</td>
<td>Research Assistant in Biochemistry</td>
</tr>
<tr>
<td>MRS. JOAN MARY O'BRIEN</td>
<td>Research Assistant in Pharmacology</td>
</tr>
<tr>
<td>MAUREEN O'CONNELL</td>
<td>Research Assistant in Medicine</td>
</tr>
<tr>
<td>ELIZABETH REILLY</td>
<td>Teaching Assistant in Medical Technology (Pathology)</td>
</tr>
<tr>
<td>MRS. FLORENCE SCHEIN</td>
<td>Research Assistant in Pharmacology</td>
</tr>
<tr>
<td>YVONNE K. STARCHESKA</td>
<td>Research Assistant in Experimental Medicine</td>
</tr>
<tr>
<td>SHIRLEY JANE STRONG</td>
<td>Research Assistant (Documentation) in Pharmacology</td>
</tr>
<tr>
<td>WING MORRISON WOON</td>
<td>Research Assistant in Pathology (Photography)</td>
</tr>
</tbody>
</table>
GRADUATES—INTERNSHIP

APPOINTMENTS

JUNE 1958

Michael Wayne Abdalla, B.A.
Denver General Hospital, Denver, Colo.

Seymour Alpert, A.B., M.S.
Mary Fletcher Hospital, Burlington

Jaroslav Michael Bandera, B.A.
Henry Ford Hospital, Detroit, Mich.

Peter John Bartelloni, B.A.
U.S. Army Medical Hospital, Fort Benning, Ga.

Eugene Modano Beaupre, B.S.
Hospital of University of Pennsylvania, Philadelphia, Pa.

Bernard Raymond Blais, B.S.
U.S. Naval Hospital, Portsmouth, Va.

Bernard Gille Boucher, B.S.
Medical Center, Jersey City Hospital, Jersey City, N.J.

Edgar Jacob Caldwell, III, B.S.
Mary Fletcher Hospital, Burlington

Leslie Erwin Chusid, B.A. Mount Sinai Hospital, New York, N.Y.

Roger Sherman Colton, A.B.
U.S. Air Force Hospital, Fort Lackland, San Antonio, Texas

Neil George Diorio, B.S.
U.S. Naval Hospital, St. Albans, N.Y.

Robert Gorman Dolan, B.S.
U.S. Naval Hospital, Chelsea, Mass.

David Eisen Doniger, B.A., M.S.
Mount Sinai Hospital, New York, N.Y.

Francis John Durgin, B.S. Syracuse Medical Center, Syracuse, N.Y.

David Warren Fagell, B.A.
Massachusetts Memorial Hospital, Boston, Mass.

Charles Pantaleon Gnassi, A.B.
Syracuse Medical Center, Syracuse, N.Y.

Peter Ames Goodhue, B.A.
Bellevue (1st Surgical Division), New York, N.Y.

Norman Gootman, B.A.
Bronx Municipal Hospital Center, Bronx, N.Y.

Arnold Goran, B.A.
Bronx Municipal Hospital Center, Bronx, N.Y.
Mrs. Barbara Brunet Hamden, B.A.
Medical Center, Jersey City Hospital, Jersey City, N. J.
Daniel James Hanson, Jr., B.S.
Detroit Receiving Hospital, Detroit, Mich.
Edward Treen Hare, Jr., B.S.
Henry Ford Hospital, Detroit, Mich.
Daniel Arthur Hart, B.S.
U. S. Naval Hospital, Chelsea, Mass.
Francis Markoe Jackson, B.S.
Virginia Mason Hospital, Seattle, Wash.
George Galli Lucchina, B.S.
Alvin Rees Midgley, Jr., B.S.
Robert Mullings O'Brien, B.S.
Buffalo General Hospital, Buffalo, N. Y.
Robert Harlie Perkins, A.B.
U. S. Naval Hospital, Bethesda, Md.
Harvey Paul Rubin, B.A.
Bellevue (4th Surgical Division), New York, N. Y.
Olin Dennis Samson, B.S.
Beverly Hospital, Beverly, Mass.
Kehnroth Schramm, A.B.
Syracuse Medical Center, Syracuse, N. Y.
Karl Heinz Shipman, B.A.
Denver General Hospital, Denver, Colo.
Mrs. Grace Wright Stetson, B.S.
The Swedish Hospital, Seattle, Wash.
Paul Stevens, B.A.
Medical Center, Jersey City Hospital, Jersey City, N. J.
George Michael Tirone, Jr., B.A.
Rochester General Hospital, Rochester, N. Y.
Harold James Wallace, Jr., B.A.
Mary Fletcher Hospital, Burlington
Peter Burrowes Webber, B.A.
Rhode Island Hospital, Providence, R. I.
Melvin Leo Wiedman, B.A.
Mount Sinai Hospital, New York, N. Y.
CARBEE PRIZES
For greatest proficiency in the subject of Obstetrics
Peter Ames Goodhue, B.A.

WOODBURY PRIZES IN MEDICINE
For greatest proficiency in Clinical Work in senior year
Erwin Leslie Chusid, B.A.
To the sophomore having the highest standing for two years of Medical Work
John Alfred Vaillancourt, B.A.

LAMB FOUNDATION PRIZES
To the students showing greatest comprehension and appreciation of the Doctor-Patient Relationship
First: Seymour Alpert, A.B., M.S.
Second: Daniel James Hanson, Jr., B.S.
Third: Arnold Goran, B.A.

ALPHA OMEGA ALPHA
National Honor Medical Society
Michael Wayne Abdalla, B.A.
Eugene Modano Beaupre, B.S.
Erwin Leslie Chusid, B.A.
Alvin Rees Midgley, Jr., B.S.
Harold James Wallace, Jr., B.A.
Melvin Leo Wiedman, B.A.
FOURTH YEAR:

Patricia Ann Adams, B.A.
West Scarboro, Me.

Americo Bernard Almeida, B.S., M.S.
Fall River, Mass.

Virginia Lee Ault, B.S.
Baltimore, Md.

Randolph Chandler Blodgett, Jr., B.S.
Sutton, N. H.

William Francis Cirmo, B.S.
New Haven, Conn.

Lewis Robert Dan, B.A.
High View, N. Y.

James Arthur Danigelis
Burlington
Howard Randall Deming, A.B.
St. Albans

Herbert James Deutsch, B.S.
Taunton, Mass.

Robert Healy Elwell, A.B.
Bennington
George Joseph Feroletto, A.B., M.S.
Bridgeport, Conn.

Peter Jay Hamre, A.B.
North Weymouth, Mass.

Clifford Morris Hetman, B.A., B.S.
Portsmouth, N. H.

William Elwin Hodgkin, B.S.
Auburn, Maine

Leonard Samuel Kaplow, B.S., M.S.
Burlington

Nance Jane Lefrancois, B.S.
Rutland

Arnold Manheim, B.A.
Burlington

George Mastras, B.A.
Middletown, Conn.

Norman Gerald Mireault, B.S.
Rochester, N. H.

Maurice Edward Mongeon, B.S.
Winooski

Mrs. Judith O’Connor Nepveu
Vergennes

Joseph Francis John Palma, B.S.
Winsted, Conn.

Norman Gerard Pare, B.S.
Manchester, N. H.

Bernard Passman, A.B.
Portland, Me.

Henry John Ramini, Jr., B.A.
Meriden, Conn.

Fayette Cecil Root, B.A.
Williston

Murray Keith Rosenthal, A.B., A.M.
Arlington, Mass.

Harold Leon Rudman, B.S.
Springfield, Mass.

Theodore Philip Sanders, A.B.
Shoreham

Glenn Marvin Seager
Burlington

Jay Elliott Selcow, B.A.
Bayonne, N. J.

Robert Edward Sharkey, A.B.
Lakewood, R. I.

Harry Samuel Spandling, B.S., M.S.
Waterbury

Stanley Irwin Stein, B.A.
Brooklyn, N. Y.

William Craige Street, B.E.E.
Old Bennington

Parker Allen Towle, B.A.
Holden, Mass.

Ronald Orin Weinraub, B.A.
Bronx, N. Y.

Stephen William Weinstein, B.S.
West Hartford, Conn.

Alan Weisel, B.S.
Stamford, Conn.

Andrew Paul Zak, Jr., B.S.
Turners Falls, Mass.

THIRD YEAR:

Louis Niman Ashkar, A.B.
Manchester, N. H.

David Anthony Austin, A.B.
Brattleboro

Martin Ellis Bloomfield, B.A.
Springfield

Charles Rudolph Brinkman, B.S.
Torrington, Conn.

Robert Keith Brown, A.B.
Enosburg Falls

Richard George Caldwell, A.B.
Tenafly, N. J.

Bruce Allan Chaffee, B.A.
Burlington

John Dana Clark, B.A.
Burlington

John Patton Clements, B.A.
Burlington

Henry Eugene Curley, B.A.
Poesten, Me.

William Franklin Cushman, A.B., M.S.
E. Hartford, Conn.
SECOND YEAR:

Donald Skinner Bicknell, B.A.
McIndoe Falls

Alden Hirsh Blackman, B.A.
Providence, R. I.

Charles Gerard Brenan, A.B.
Brookline, Mass.

Clarence Edward Bunker, B.S.
Manchester, Conn.

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.

Allan Howard Greenfield, B.A.
Brookline, Mass.

Normand Conrad Nepveu, A.B.
Nashua, N. H.

Marvin Alfred Nierenberg, A.B.
Jamaica, N. Y.

Audrey Jean Opuski, B.A.
New Britain, Conn.

John Joseph Ouelllette, A.B.
Tunbridge

Artemas John Wise Packard, B.S.
Hanover, N. H.

Stephen George Pappas, B.S.
Somersworth, N. H.

Robert Clifton Parker, A.B.
Morrisville

Lawrence Charles Schine, A.B.
Fairfield, Conn.

Joseph Michael Siegel, A.B.
Hilldale, N. Y.

Herzl Robert Spiro, B.A.
Burlington

John Walter Stetson, A.B.
Rutland

James Cedric Stevens, B.S.
Leominster, Mass.

Sara Ann Stoesser, A.B.
New York, N. Y.

Philip Goodrich Whitney, B.A.
W. Lebanon, N. H.

Melvyn Hyman Wolk, A.B.
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Fred Anthony Ziter, A.B.
Barre

Joseph John Guardino, B.S., M.Ed.
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Robert Cesare Guiduli, B.A.
Barre

George Hughes Hansen, B.S.
Rutland

Christos Arthur Hassiotis, A.B.
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Edward Keith Howard, B.A.
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Thomas Gerald Howrigan, B.S.
Fairfield

Frederick Robert Hyland, B.S.
Rutland

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.
John Murdock MacAulay, B.A.
Graniteville
Alan Blair Mackay, A.B.
Burlington
Allen Wray Mathies, Jr., B.A., M.S.
Colorado Springs, Colo.
John Marshall McGinnis, Jr., B.A.
Natick, Mass.
William James McSweeney, B.S.
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John Charles Mesch, B.A.
Hanover, N. H.
Charles Eldor Moisan, Jr., B.A.
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Patrick Edward Moriarty, B.S.
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Richard Dodge Morrison, B.A.
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William Jackson Morse, Jr., B.S.
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Donald Robert Morton, B.S.
Presque Isle, Me.
Albert John Murphy, B.S.
Manchester, N. H
Harold Weldon O'Brien, B.A.
Sanctorville, Me.

FIRST YEAR:

Saul Adams, B.S., M.S.
Rockland, Mass.
Milton Oliver Andrus, A.B.
Milford, Conn.
Ralph David Aserkoff, B.A.
Dorchester, Mass.
Edward Michael Austin Brattleboro
Robert David Baker Burlington
Charles Curtis Beebe, III, A.B.
Hollis, N. H.
Mrs. Agnes George Bockmon, A.B.
Manchester, N. H.
Spencer Worthington Burney, B.S.
Charlestown, N. H.
John Barry Burns, B.S.
Montpelier
David Stuart Chase, Lancaster, N. H.
James Ford Clapp, III, A.B.
Cambridge, Mass.
Daniel Harrison Day, A.B.
Yarmouth, Me.
John Richard Dooley, A.B.
Portland, Me.
Peter Clowes Dowling, B.S.
Laconia, N. H.
Donald Thomas Evans, B.A.
Rutland

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.
Brookton, Mass.
Donald Walter Seymour, B.A.
West Rutland
David Alan Stephens, B.A.
Burlington
Andrew Melville Stewart, B.A.
Hanover, N. H.
Albert Howard Stone, B.A.
St. Albans
Edwin Laurie Tolman, A.B.
Waban, Mass.
Mariana 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.

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Bridgeport, Conn.
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Burlington
Nathel John Fontana, B.A.
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Northfield
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Chesterhill, Mass.
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Orono, Me.
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Chelsea, Mass.
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Longmeadow, Mass.
Warren Evan Johnson, A.B.
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W. Roxbury, Mass.
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Dover, N. H.
Paul Jerome LaRaia, B.A.
Watertown, Mass.
Roger Lee Lerner  Bridgeport, Conn.
Dean Sherwood Louis, B.S.
   Fremont, N. H.
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   W. Franklin, N. H.
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   Chicopee Falls, Mass.
Paul Arthur Marshall, B.S.
   Waterville, Me.
John Bingham Marvin, B.A.
   Montpelier
Albert Frederic Marz, Jr., B.A.
   Warwick, R. I.
Jack Norman Meltzer, B.A.
   Bangor, Me.
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   Montpelier
Robert George Mondou, A.B.
   Manchester, N. H.
Henry Modestino Nigro, A.B.
   W. Newton, Mass.

Daniel Isaac Palant, B.A.
   Springfield, Mass.
Sherwin Howard Ritter, B.A.
   Springfield, Mass.
Richard George Rozek, B.S.
   Berlin, N. H.
Norman Burton Schwartz, A.B.
   Milton, Mass.
Ruth Andrea Seele
   Ardsley, N. Y.
Lewis Mark Slater, A.B.
   Flushing, N. Y.
Robert Harold Tafrate, A.B.
   Burlington
Harold Ellsworth Tefft, Jr., A.B.
   Laconia, N. H.
Peter Dodds Upton, B.S.
   Burlington
Hervey Allan Weitzman, B.S.
   Longmeadow, Mass.
Walter George Wrobleski, Jr., B.S.
   Nashua, N. H.
Model of projected new College of Medicine Building.