1956

University of Vermont, College of Medicine Bulletin

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COLLEGE OF MEDICINE

UNIVERSITY OF VERMONT

BULLETIN

VOLUME LIII NUMBER 12

BURLINGTON, VERMONT

DECEMBER 15, 1956
Address all communications to the Dean's Office,
College of Medicine, University of Vermont,
Burlington, Vermont
Telephone 4-4511, extension 252
CALENDAR

1956-57

September 14 Friday. Enrollment and payment of fees.
September 15 Saturday. Convocation.
September 17 Monday. Class work and assignments begin.

1ST AND 2ND YEARS

1ST QUARTER: Sept. 17 (Monday) through November 21 (Wednesday noon)
   Nov. 17-21 Saturday to Wednesday noon. Examinations.
   Nov. 21-25 Wednesday noon through Sunday. Thanksgiving recess.

2ND QUARTER: November 26 (Monday) through February 3 (Sunday)
   Nov. 26 Monday. Classes resume.
   Jan. 3 Thursday. Classes resume.
   Jan. 21-23 Monday through Wednesday. No classes.
   Jan. 24-29 Thursday through Tuesday. Examinations.
   Jan. 30-Feb. 3 Wednesday through Sunday. Vacation.

3RD QUARTER: February 4 (Monday) through April 14 (Sunday)
   February 4 Monday. Classes resume.
   February 8 Friday. Enrollment.
   Feb. 22-23 Friday and Saturday. Kake Walk—no classes.
   April 8-13 Monday through Saturday noon. Examinations.
   April 13-21 Saturday noon through Sunday. Spring Vacation.

4TH QUARTER: April 22 (Monday) through June 16 (Sunday)
   April 22 Monday. Classes resume.
   May 30 Thursday. Memorial Day.
   June 1 Saturday. Last day of classes—1st year.
   June 3-8 Monday through Saturday. No classes—1st year.
   June 8 Saturday. Last day of classes—2nd year.
   June 10-15 Monday through Saturday. Examinations.

3RD YEAR

1ST QUARTER: Sept. 17 (Monday) through Dec. 9 (Sunday)

2ND QUARTER: Dec. 10 (Monday) through March 17 (Sunday)
   Dec. 22-Jan. 2 Saturday noon through Wednesday. Christmas recess.
   January 3 Thursday. Assignments resumed.
   March 9-17 Saturday noon through Sunday. Spring vacation.

3RD QUARTER: March 18 (Monday) through June 23 (Sunday)
   June 15-23 Saturday noon through Sunday. Vacation.

4TH QUARTER: June 24 (Monday) through Sept. 7 (Saturday noon)
   June 24 Monday. Assignments resumed.

4TH YEAR

March 16-24 Saturday noon through Sunday. Spring vacation.
May 18 Saturday. Last day of assigned work.
May 20-23 Monday through Thursday. Pre-examination days.
May 24-28 Friday through Tuesday. Examinations.
May 29-June 15 Wednesday through Saturday. Vacation.
June 16 Sunday. Graduation.
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THE BOARD OF TRUSTEES

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JOSEPH BLAINE JOHNSON, B.S.  Governor  \(Ex\)-Officio

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DUNBAR WRIGHT BOSTWICK, B.A.
(From Dec., 1952)
EDWIN WINSHIP LAWRENCE, A.B.
(From Aug. 20, 1953)
NEAL W. BEATTIE, B.S.
(From Apr. 28, 1955)

March, 1952—March, 1958

EDMUND CURTISS MOWER, LL.B.
HOWARD ANDERSON PRENTICE, D.Ed.
LAURENCE LAMSON ROBBINS, M.D.

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)

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ALBERT LOVEJOY GUTTerson, B.S.
ROBERT THAYER HOLDEN, B.S.

March, 1955—March, 1961

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

March 1956—March 1962

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CHARLES PLYMPTON SMITH

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Assistant Secretary—ANNA C. SMITH
THE COLLEGE OF MEDICINE

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CHESTER ALBERT NEWHALL, A.B., M.D.
LEON ROBERT LEZER, B.S., M.D., M.P.H.
CORNELIA JOSEPHINE BAYLIES, A.B.
MRS. MARGARET M. HINMAN, B.S.

Dean
Secretary of the Faculty
Director of Health Studies
Administrative Assistant
Secretary for Admissions
STANDING COMMITTEES
Effective July 1, 1956

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

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

Subcommittees of the Executive Committee:

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

Library—Drs. Lamden*; W. Chambers; Lepeschkin; Page; Robertson; Sichel; L. Thabault; Wallman; Wessen; Williams.

Postgraduate Education—Drs. French*; S. Allen; Gross; Miller; O'Brien; Upton; Young.

Third-Year Lecture Committee—Drs. Rees*; Bland; Macmillan; McGill; Martin; Okey; Slavin; Truax; Van Buskirk; Wilson.

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

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

In 1911 the faculty of the College of Medicine was reorganized and became an integral part of the University. In 1912 one year of college work was required for admission and the College of Medicine year was made equal in length to that of the academic college. Two full years of college work were required for admission in 1917. In 1920 women were admitted to the College of Medicine. In recent years 82% of all students have the baccalauriate degree upon admission to the College of Medicine.
REGIONAL COOPERATION

The Trustees of the University of Vermont and the University of New Hampshire took the first step in the program of regional educational cooperation for New England when in October 1954 they signed a formal contract which establishes in-state tuition rates for selected New Hampshire students at the medical college of the University of Vermont.

Steps are being taken to extend this beginning in regional cooperation to all the New England states.

FORM OF BEQUESTS

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

If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College of Medicine, such use may be specified.
The 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 a broad cultural background aimed at individual scholarship and the development of one or more fields of interest early in his academic career.

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.
THE UNIVERSITY 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.

The State of Vermont by statute requires every resident of the State who enrolls in a curriculum leading to the degree of Doctor of Medicine and who enjoys reduced tuition to sign an agreement to practice medicine in Vermont for the period of one year for each year of enrollment. In lieu of this, the student may refund to the State Treasurer, through the University, the difference between the total tuition paid and the total unit cost to the State of the curriculum pursued.

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 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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<th>Item</th>
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<tbody>
<tr>
<td>Application Fee</td>
<td>$10.00</td>
</tr>
<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>
</tr>
<tr>
<td>Tuition Fee for students not residents of Vermont</td>
<td>1,000.00</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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**Average Range**

<table>
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<th>Item</th>
<th>Average Range</th>
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<tr>
<td>Room Rent</td>
<td>$300.00 to $450.00</td>
</tr>
<tr>
<td>Board</td>
<td>400.00 to 500.00</td>
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</tbody>
</table>

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

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

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

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

(a) An Abbe substage condenser with iris diaphragm and rack and pinion
(b) 10X oculars
(c) At least three objectives with lenses free from defects and capable of giving clear images—low power (16 mm.), high dry power (4 mm.), and oil immersion (1.8 mm.)
(d) At least a three-place nosepiece
(e) A modern and properly functioning mechanical stage; calibration is not necessary.
(f) Properly functioning fine and coarse adjustments.
(g) A substage mirror.
(h) A substage lamp, American Optical #385B, which is equipped with a 3/16 inch Corning Daylite filter for monocular microscopes and an American Optical lamp #361 for binocular microscopes.

Note: In the normal course of events, it requires 2 months to obtain delivery on the above equipment.

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.

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

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

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

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

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 seventy-five, fifty and twenty-five dollars will be offered during the year 1956-1957 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 patient comfort and doctor-patient relationship.

SCHOLARSHIPS AND LOAN FUNDS

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

By Act of the Legislature in 1919, amended in 1953, the State of Vermont annually provides State Scholarships of $200 each in the College of Medicine for residents of the State of Vermont who may need financial assistance. To qualify for such scholarships, students must have established residence in Vermont two consecutive years preceding enrollment in the University. Where students accept these scholarships, they must agree to practice medicine in the State of Vermont one year for each year such aid is given, or refund the amount of aid received. Application blanks may be obtained at the Dean’s Office.
A loan fund of four thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873. Students in the College of Medicine in need of financial assistance may apply for loans from this fund.

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

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

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

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

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

REGULATIONS FOR COLLEGE OF MEDICINE STUDENTS

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

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

1. 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 have shown satisfactory evidence of good moral character. All the requirements of this college in regard to preliminary education must have been met, and the candidate must have attended regularly and completed satisfactorily the prescribed work of the four courses of instruction.

The degree of Doctor of Medicine is granted by the Board of Trustees of the University of Vermont and State Agricultural College to candidates only upon the recommendation of the Com-
mittee on Advancement and the Faculty of the College of Medi-
cine 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

In order to bring to the medical student an early introduction
to the problems confronting the physician, the first-year class is
divided into small groups which meet several times during the year
with the dean and the secretary of the faculty. Here the students
bring up topics unrelated to their course work which discussion
may clarify. Human ecology is also considered.

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. The participants in this program were
six students selected from among those applicants who had com-
pleted their third year of premedical training at the University of
Vermont.

A new group of four is enrolled in the program during the
present year.

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 re-
cent advances in the rapidly changing field of medicine. Special-
ized 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,
for a career in academic medicine, or for research.

GENERAL PLAN OF THE CURRICULUM

FIRST YEAR: Anatomy, physiology and biochemistry are inte-
grated 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. A course in psychobiology includes lectures, moving pictures and discussion. Informal small discussion groups which meet with the dean and the secretary of the faculty are supported by the Lamb Foundation.

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, 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. A 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 Burlington Free Dispensary (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 including mental hygiene clinics and cerebral palsy clinics.

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

TEACHING FACILITIES

THE COLLEGE OF MEDICINE BUILDING

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

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 the offices of the Director of Health Studies and the Division of Preventive Medicine.

HOSPITALS

THE MARY FLETCHER HOSPITAL. This general hospital has 220 beds and 37 bassinets. It has been associated with the College of Medicine as a teaching hospital since 1879, and has all types of medical and surgical services. The hospital has a yearly average of approximately 60,026 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 cases by attending staff men as members of the faculty of the College of Medicine. The hospital is approved by the American Medical Association for intern training and for residencies in medicine, radiology, surgery, anesthesia, pathology, pediatrics, obstetrics-gynecology and urology.

THE DEGOESBRIAND MEMORIAL HOSPITAL. The DeGoesbriand Memorial Hospital is a modern and completely equipped general hospital located west of the College Green and adjacent to the College of Medicine. The present capacity of the hospital is 200 beds and 35 bassinets. All the clinical services are represented in the approximately 59,567 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 medicine, surgery, obstetrics-gynecology, pediatrics, anesthesiology, urology, pathology, radiology and general practice.

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.

AMBULATORY PATIENT AND HOME CARE FACILITIES

THE BURLINGTON FREE DISPENSARY. This Dispensary is located in the Howard Relief Building at 174 Pearl Street (in the center of Burlington) and is supported jointly by the City of Burlington and the College of Medicine. During the previous year, 4,518 visits were made to the Dispensary. Mental health, allergy, dermatology, speech and hearing, crippled children and a general practice-medical screening clinic operate. Students work in these clinics under the supervision of medical college staff members.

CITY SERVICE. Fourth-year students are assigned to the home care service. Home visits day and night are made with medical resident physicians under the supervision of staff members. There were 5,957 such visits made last year.

DURFEE MEMORIAL CLINIC. The Clinic is located at the Mary Fletcher Hospital. Approximately 8,606 free and part-pay patient visits are referred by the Free Dispensary and practicing physicians and studied in general and specialty clinics under the supervision of medical college staff specialists.

DEGOESEBRIAND MEMORIAL OUTPATIENT DEPARTMENT. Five thousand five hundred fifty-six visits to general and specialty clin-
PRECEPTORSHIPS IN GENERAL PRACTICE. Selected practitioners about the State accept fourth-year students in their homes and offices for one month of experience in general practice.

MEDICAL LIBRARY

The Medical Library contains the standard reference works in medicine and cognate fields, up-to-date texts and monographs, and files of back journals. Over 385 subscriptions to current journals are received regularly. From time to time the library acquires valuable additions from private gifts.

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

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

MEDICAL MUSEUM

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

STATE LABORATORY FACILITIES

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

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

DIVISION OF PHOTOGRAPHY

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

1956-57

<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></td>
<td>Biochemistry</td>
</tr>
<tr>
<td>9:00- 9:50</td>
<td></td>
<td>Anatomy (remainder of yr.)</td>
<td></td>
<td>Discussion Groups**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00-10:50</td>
<td>Anatomy*</td>
<td>Anatomy</td>
<td></td>
<td></td>
<td>Biochemistry</td>
<td></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td></td>
<td>Physiology</td>
<td>Physiology</td>
<td></td>
<td>Anatomy</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></td>
<td></td>
</tr>
<tr>
<td>2:00- 2:50</td>
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<td></td>
<td></td>
<td></td>
<td>Anatomy</td>
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<tr>
<td>3:00- 3:50</td>
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<td>4:00- 4:50</td>
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</tbody>
</table>


**Meet alternate weeks.
## SECOND YEAR SCHEDULE
First Semester 1956-57

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

There are some variations in this schedule from week to week:
<table>
<thead>
<tr>
<th>Day</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>8:00-8:50</td>
<td>Course A: Pathology</td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course B: Course B: Clinical Medicine</td>
<td>Course A: Course A: Pharmacology</td>
<td>Course A: Course A: Pharmacology</td>
</tr>
<tr>
<td></td>
<td>9:00-9:50</td>
<td></td>
<td>Course C: Introduction to Clinical Medicine</td>
<td>Course B: Course B: Clinical Medicine</td>
<td>Course A: Course A: Pharmacology</td>
<td>Course A: Course A: Pharmacology</td>
</tr>
<tr>
<td></td>
<td>10:00-10:50</td>
<td>Course B: Histology</td>
<td>Course B: Clinical Medicine</td>
<td>Course A: Course A: Pharmacology</td>
<td>Course A: Course A: Pharmacology</td>
<td>Course A: Course A: Pharmacology</td>
</tr>
<tr>
<td></td>
<td>12:00-12:50</td>
<td>Course B: Epidemiology</td>
<td>Course B: Clinical Medicine</td>
<td>Course A: Pharmacology</td>
<td>Course A: Pharmacology</td>
<td>Course A: Pharmacology</td>
</tr>
<tr>
<td></td>
<td>1:00-1:50</td>
<td></td>
<td>Course B: Clinical Medicine</td>
<td>Course A: Pharmacology</td>
<td>Course A: Pharmacology</td>
<td>Course A: Pharmacology</td>
</tr>
<tr>
<td></td>
<td>2:00-2:50</td>
<td>Course B: Clinical Medicine</td>
<td>Course B: Clinical Medicine</td>
<td>Course A: Pharmacology</td>
<td>Course A: Pharmacology</td>
<td>Course A: Pharmacology</td>
</tr>
<tr>
<td></td>
<td>3:00-4:00</td>
<td></td>
<td>Course B: Clinical Medicine</td>
<td>Course A: Pharmacology</td>
<td>Course A: Pharmacology</td>
<td>Course A: Pharmacology</td>
</tr>
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<td></td>
<td>4:00-5:00</td>
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</tbody>
</table>

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

1956-57

**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>Tutor Conference</td>
<td>Tutor Conference</td>
<td>Tutor</td>
<td></td>
<td>Tutor Conference</td>
<td>Conference</td>
</tr>
<tr>
<td>9:00-10:00</td>
<td>One student weekly to x-ray</td>
<td>Conference</td>
<td>Neurosurgery</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>ENT conference</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Grand Rounds</td>
<td></td>
<td>Orthopedic conference</td>
</tr>
<tr>
<td>11:00-12:00</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td>Special lecture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00-1:00</td>
<td>x-ray conference</td>
<td>Chest Conference</td>
<td>Chest Conference</td>
<td>Special lecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00-2:00</td>
<td></td>
<td></td>
<td></td>
<td>Anesthesia or Urology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00-3:00</td>
<td></td>
<td></td>
<td>Pathological-Surgery</td>
<td></td>
<td></td>
<td>Thoracic Surgery</td>
</tr>
<tr>
<td>3:00-4:00</td>
<td>x-ray conference</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00-5:00</td>
<td>x-ray conference</td>
<td></td>
<td></td>
<td>Oncology</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
1956-1957

Detail of Rotation

Medicine and Surgery, State Hospital
Outpatient Department, Mary Fletcher Hospital
Outpatient Department, DeGoesbriand Memorial Hospital
Home Care Program and City Dispensary
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.
THE UNIVERSITY OF VERMONT

SUMMARY OF STUDIES 1956-1957
CLASSROOM AND LABORATORY HOURS

*Gross Anatomy 324  
*Biochemistry 214  
Discussion Groups 6  
*Histology and Embryology 148  
*Neuro-anatomy 96  
*Physiology 248  
Psychobiology 32  

Total hours 1,068

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</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></td>
<td>30</td>
</tr>
<tr>
<td>*Bacteriology</td>
<td>165</td>
<td>24</td>
<td>165</td>
<td>24</td>
</tr>
<tr>
<td>Conjoint</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*Pathology and Clinical Pathology</td>
<td>222</td>
<td>188</td>
<td>410</td>
<td></td>
</tr>
<tr>
<td>*Pharmacology</td>
<td>84</td>
<td>80</td>
<td>164</td>
<td></td>
</tr>
<tr>
<td>Psychopathology</td>
<td></td>
<td>16</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Public Health</td>
<td></td>
<td>31</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Total hours</td>
<td>501</td>
<td>339</td>
<td>840</td>
<td></td>
</tr>
</tbody>
</table>

Course A

Course B

*Elicitation of Data 141  
Course C

*Introduction to Clinical Medicine 95  

Total hours for year 501  
575  1,076

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 1956 is Daniel Hart.

OFFICERS OF THE U.V.M. MEDICAL ALUMNI ASSOCIATION—1956

President—Dr. Charles T. Schectman, '26, New Britain, Conn.

President-Elect—Dr. Emory O. Lewis, '42, New Bedford, Mass.

Vice-President—Dr. J. C. Cunningham, '35, Burlington

Secretary-Treasurer—Dr. Ralph D. Sussman, '38, Burlington

Executive Committee—Dr. Jay E. Keller, '40, Chairman, Burlington; Dr. A. Bradley Soule, Jr., '28, Burlington; Dr. Howard Farmer, '37, St. Johnsbury.

Obituary Committee—Dr. Douglas Lindsay, '37, Chairman, Montpelier; Dr. C. A. Newhall, '28, Burlington; Dr. William Fagan, '48, Burlington.
THE DEPARTMENTS IN THE COLLEGE OF MEDICINE

THE DEPARTMENT OF ANATOMY

Professors of Anatomy: NEWHALL, (Chairman), 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 Course

Prerequisite—permission of the Department Chairman.

201-202. Histology. First and second semesters. 5 credit hours each semester. Average of 10 hours of lecture, conference and laboratory each week. Study of cells, tissues and organs using routine and special technics.
THE DEPARTMENT OF BACTERIOLOGY AND PREVENTIVE MEDICINE

Professor of Bacteriology: GALLAGHER (Chairman).
Associate Professors of Preventive Medicine: AIKEN, LEZER.
Assistant Professor of Bacteriology: OKEY.
Assistant Professor of Medical Technology: MAXSON.

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

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

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

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

Two courses are offered to students in the School of Dental Hygiene. In their freshman year they are given a course in Bacteriology consisting of two hours of lectures and two 2-hour laboratory periods per week during the spring semester. In the spring semester of their second year they are given a course in Public Health consisting of two hours of lectures per week.

The full-time staff participates in clinical activities at the local hospitals.

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, culminating 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*, WILLS**.

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

The primary aim of the Department is to teach undergraduate students the subject material in biochemistry. Specific research is being conducted on human nutrition, protein metabolism as related to purines and pyrimidines, enzymes, connective tissue, endocrinology, 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 six senior and seven junior members. Two members have joint appointments with the Department of Medicine.

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

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

* On leave of absence September 1, 1956 to September 1, 1957 as exchange Associate Professor of Biochemistry, St. Bartholomew's Hospital College of Medicine, London, England.

** Senior Lecturer in Biochemistry, St. Bartholomew's Hospital College of Medicine, London, England. Exchange Associate Professor of Biochemistry September 1, 1956 to September 1, 1957.
Members of the staff participate in clinical conferences in the local hospitals.

Graduate training includes the following:

**Graduate Courses**

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

**201-202. Medical Biochemistry**

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

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

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

**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. Open to all properly qualified students. 2 credit hours per semester.

**321, 322. Food and Nutrition**

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

Lectures and seminars, 2 x 1 hour per week. 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. \(2 \times 1.5\) hours per week. 1st semester. Laboratory \(1 \times 4\) 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. \(2 \times 1.5\) hours per week.

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

371. Physical Biochemistry

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

Lectures and seminars 2 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. \(1 \times 1\) 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 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 specialities 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 thirty-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 and cardiac function, both in health and disease.

* Markle Foundation Scholar in Medical Science.
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.

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

The weekly departmental conferences are attended not only by students, house staff, and members of the Department, but by many physicians throughout the state.

DIVISION OF DERMATOLOGY

Professor of Dermatology: DALY (Chairman).
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 diplomates of the American Board of Dermatology and Syphilology, Fellows of the American Academy of Dermatology and Syphilology, and of the Montreal and New England Dermatological Societies. Both staff members are part-time personnel.
Beginning in the academic year 1953-54, the Division 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.

In the fourth year, teaching is carried on in groups of three or four students assigned to the Free Dispensary. Here, patients are seen in conjunction with both members of the staff and the entire procedure from diagnosis to treatment and follow-up is executed together by staff and students. Intern teaching is incidental to visits to hospital patients either on the dermatologic service or those seen in consultation. No graduate courses are offered.

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

DIVISION OF EXPERIMENTAL MEDICINE

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

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 and endocrine problems.

Aided by grants from the U. S. Public Health Service, the American Heart Association, the American Medical Association, and the U. S. Navy, research problems are being studied which involve derangements of the adrenergic-cholinergic balance in myocardial metabolism; 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 pursues an active research and teaching program.

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, clinicopathological and correlation conferences, and arranges special courses and symposia for graduates in cardiology and endocrinology.

DIVISION OF NEUROLOGY

Professor of Neurology: SCHUMACHER (Chairman).
Assistant Professor of Clinical Neurology: MARTIN.
Instructor in Clinical Neurology: MARSHALL.

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

The 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 clerks on the floors of either the Mary Fletcher or DeGoesbriand Memorial Hospitals.

During the fourth year, instruction in neurology is confined essentially to participation in the work of the Neurology Out-
patient Clinics. Small groups of students are assigned to the Clinics, which meet once a week, and students perform complete neurological examinations on new patients. At this time the student is expected to record his complete diagnostic formulation and plan of management. The work is closely supervised and checked.

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

DIVISION OF PEDIATRICS

*Professor of Pediatrics:* McKay (Chairman).

*Associate Professors of Clinical Pediatrics:* P. Clark, Corley, Sussman.

*Instructor in Pediatrics:* Lucey.

*Instructors in Clinical Pediatrics:* Corbin, D. Morrow.

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

The staff consists of two full-time and five 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 participa-
tion in a home care program, a preceptorship with a general practitioner in a rural area and a clerkship in a selected community hospital. The Division takes the responsibility for pediatric training of rotating interns and pediatric residents in the Burlington hospitals.

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

DIVISION OF PSYCHIATRY

Professor of Psychiatry: CHITTICK (Chairman).
Associate Professor of Clinical Psychiatry: YOUNG.
Assistant Professor of Clinical Psychiatry: STEPHENSON.
Instructors in Clinical Psychiatry: BROOKS, CARON, COHEN, FOREST, MARSHALL, ELDRÉD.
Instructor in Clinical Psychology: HOWE.

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 electroencephalography, 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 MacLean 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.

THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Professor of Obstetrics and Gynecology: MAECK (Chairman).

Associate Professors of Obstetrics and Gynecology: EASTMAN, SLAVIN.

Assistant Professor of Obstetrics and Gynecology: GROSS.

Assistant Professor of Gynecology: MCSWEENEY.

Assistant Professor of Clinical Obstetrics and Gynecology: B. CLARK.

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

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

Professor of Ophthalmology: CUNNINGHAM (Chairman).
Assistant Professor of Ophthalmology: TWITCHELL.
Instructor in Clinical Ophthalmology and Otology: HEISSE.

DIVISION OF OTOLARYNGOLOGY

Associate Professor of Otolaryngology: R. MORROW (Chairman).
Assistant Professors of Clinical Otolaryngology: LAWLOR, REED.

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. 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 Ophthalmology and Otolaryngology is maintained in which is offered a program of clinical training in all
phases of these specialties, including broncho-esophagology, plus 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 DEPARTMENT OF PATHOLOGY AND ONCOLOGY

Professor of Pathology: COON (Chairman).
Associate Professor of Pathology: STARK.
Assistant Professors of Pathology: BUTTLES, CROWLEY, KORSON, WOODRUFF.
Instructor in Pathology: BENNINGHOFF.

Teaching, research, and service functions are effectively integrated into a single program by the staff members of the Department of Pathology. Proper balance among these various aspects of the Department's activities results in a well-rounded and balanced teaching program.

The second-year course in pathology introduces the student to the study of disease, emphasizing and correlating the functional with the structural changes which occur. The formal instruction is divided into general pathology in which problems of injury, inflammation, repair, and neoplasia are considered and into special pathology in which the diseases of the various organ systems are systematically studied. 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. Certain aspects of forensic pathology are included in the curriculum; these are taught by the State Medical Examiner, who is a part-time member of the Department.

The instruction in the second-year course in clinical pathology is closely correlated with work in general and special pathology. This phase of the course is taught in conjunction with Dr. Richard Henry Saunders, Jr., Associate Professor of Medicine. 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. Correlation with the course in general and special pathology is aided by "pooling" of the class periods of both courses. Instruction in the various phases of clinical pathology continues into the third and fourth years.

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.

Residency training in pathology is offered by the Department. This program is centered around the work in the teaching hospitals where training is given and experience obtained in the various aspects of tissue and clinical pathology. In addition, residents are encouraged to engage in research and to participate actively in the teaching programs.

Graduate Courses:

Prerequisite—Permission of Department Chairman.

301-302. General and Special Pathology

This is similar to the course designed for second-year medical students except that it does not include the course work in Clinical Pathology. It may be taken as a minor by graduate students who have proper prerequisite training.

Lectures and conferences, 55 hours, first semester; 45 hours, second semester; laboratory, 109 hours, first semester; 94 hours, second semester. 7 credit hours, first semester; 6 credit hours, second semester.

391, 392, 393, 394. Thesis Research.

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

Prerequisite—Courses 301 and 302. Credit as arranged.
The pharmacology course for undergraduate medical students is taught throughout the second year in correlation with the course sequence of the Department of Pathology. The course considers a study of the basic mechanism of action of therapeutic agents, their pharmacological actions, their fate and toxicology. The course consists of lectures, medical motion picture teaching films, discussion groups, demonstrations, and laboratory exercises. Demonstrations and laboratory experiments in pharmacodynamics are designed to emphasize accurate observation, careful recording, and biological variations in drug action. 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 U. S. Air Force) 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, the National Science Foundation, and the Life Insurance Medical Research Fund.

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

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, 82 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.
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, hormonal effects at cellular and tissue levels, 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 Ohio State University. 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 at the cellular, tissue, and organ levels. The approach is mainly biological and physical. Physiological principles fundamental to clinical medicine are examined on the basis of supporting experimental evidence. Instruction is given throughout the first year, mainly by means of lectures, laboratory classes and demonstrations. The laboratory work is of a quantitative nature wherever feasible, and in almost half of the experiments the student also acts as subject.

The graduate program is directed toward the candidate for the Master of Science degree. The courses and research program are restricted to the general fields of interest of the full-time 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 to be 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 to be 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 DEPARTMENT OF SURGERY**

Professor of Surgery: MACKAY (Chairman).
Professor of Clinical Surgery: REES.
Associate Professors of Clinical Surgery: GLADSTONE, TRUAX.
Assistant Professor of Clinical Surgery: DECKER.
Instructors in Surgery: HAINES (Oncology), PAGE.
Instructors in Clinical Surgery: BARNEY (Plastic), CAIN, CRANDALL, KELLER, LYNCH (Industrial), Mc-GILL, MINOT (Thoracic and Cardiac), PACHE, SHEA, 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: BRAZELL, DENTE, FUKUDA, MILLS.

The aim of this Division is to furnish anesthesia services encompassing the clinical work of both of 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 six lectures, given four times yearly, to the third year class of medical students, and periodically scheduled lectures in both the second and third years, as well as a number of invitation lectures in the Department of Pharmacology. The fourth year medical students are invited to attend the Anesthesiology Conferences which are held twice weekly. These conferences are primarily directed toward the resident training portion of the program. The resident training program consists of the appointment of five residents for a period of two years each, who rotate through both hospitals.

Research laboratories including those concerned with radio-isotopes are under the supervision of one of the attending anesthesiologists.

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

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.

DIVISION OF ORTHOPEDIC SURGERY

Associate Professor of Orthopedic Surgery: J. F. Bell (Chairman).
Assistant Professors of Clinical Orthopedic Surgery: Kuhlmann, Rust.
Instructor in Clinical Orthopedic Surgery: Simpson.
Consultant in Orthopedic Surgery: Bosworth.

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.

All members 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 residences 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.
DIVISION OF RADIOLOGY AND PHYSICAL THERAPY

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

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

Research projects include the development and design of a rotational x-ray therapy unit, (supported by grants from the National Cancer Institute), development of a method of brain tumor localization by the use of plane-scanning, blood volume studies, studies on the toxicity of kerosene, studies of certain developmental anomalies, studies of myocardial infarction, and methods of therapy in the treatment of hemangiomas.

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.

DIVISION OF THORACIC AND CARDIAC SURGERY

Associate Professor of Clinical Surgery (Thoracic): MILLER (Chairman).
Instructor in Clinical Thoracic and Cardiac Surgery: MINOT.

In general this Division concerns itself primarily with prob-
lems 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).
Instructors in Clinical Urology: ESPOSITO, FAGAN, 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 three-year urological residency program is in effect at present and it is anticipated that this will be extended to a four-year program. At present there is a resident in the first and second years of that program.
SERVICES TO COMMUNITY AND STATE RENDERED BY THE COLLEGE OF MEDICINE

A growing program of postgraduate or continuation education for the physicians of the state is conducted by the College of Medicine. The State Medical Society, the State Department of Health, the Vermont Cancer Society, the Vermont Heart Association and the Vermont Arthritis Association, the Mary Fletcher Hospital, and the DeGoesbriand Memorial Hospital all cooperate with the College in these endeavors.

The College of Medicine conducts a diagnostic tumor clinic in cooperation with the cancer division of the Vermont State Department of Health and the Mary Fletcher Hospital. The DeGoesbriand Memorial Hospital is also developing a tumor clinic.

Members of the faculty and staff of the College of Medicine conduct a home care program for the City of Burlington, operate the Free Dispensary, staff the outpatient departments in the two local hospitals and act as consultants to the Elizabeth Lund Home, the Children's Home, St. Joseph's Orphanage and the St. Joseph's Home.

The Vermont Association for the Crippled and certain members of the College of Medicine operate a speech and hearing clinic and a clinic for cerebral palsied children. The students observe in these clinics.

The Department of Pathology, in addition to cooperating with the staffs of the local hospitals, performs tissue examinations for certain hospitals in the state.

The Department of Biochemistry carries out a limited number of specialized laboratory tests for hospitals in need of such services.

A few of the specialists on the staff of the College of Medicine serve as consultants in distant points in the state.

The Medical Library offers a loan service for use of doctors in the state.

The Department of Pharmacology from time to time provides information to the doctors of the state especially concerning agricultural and industrial poisons.
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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FRED WILLIAMS DUNIHUE Professor of 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.
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.

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

ASSOCIATE PROFESSORS

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

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

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

JOHN HARDESTEY 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.

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

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

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

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

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

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

RICHARD HENRY SAUNDERS, JR.
B.A., University of Richmond, 1939; M.D., University of Rochester, 1943. Associate Professor of Medicine and Markle Foundation Scholar in Medical Science

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

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

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

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

RALPH DANIEL SUSSMAN
B.S., University of Vermont, 1935; M.D., 1938. Associate Professor of Pediatrics

CHRISTOPHER MARLOWE TERRIEN
M.D., University of Vermont, 1936. Associate Professor of Clinical Medicine

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

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

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

* On leave of absence September 1, 1956 to September 1, 1957 as exchange Associate Professor of Biochemistry, St. Bartholomew's Hospital College of Medicine, London, England.
**Eric Douglas Wills** ... Associate Professor of Biochemistry

William Greenhill Young ... Associate Professor of Clinical Psychiatry
M.D., University of Toronto, 1930.

Assistant Professors

James Henry Bannon ... Assistant Professor of Clinical Medicine
M.D., C.M., McGill, 1940.

Jean Bullock ... Assistant Professor of Medical Social Service
B.S., Akron, 1947; M.S., Western Reserve, 1949.

Roy Vedder Butlles ... 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., 1933.

Leonard Vincent Crowley ... Assistant Professor of Pathology
M.D., University of Vermont, 1949.

Alfred Mills Decker, Jr. ... Assistant Professor of Clinical Surgery
B.A., University of Rochester, 1940; M.D., 1943.

Arthur Howard Flower, Jr. ... Assistant Professor of Clinical Dermatology
A.B., Heidelberg, 1938; M.D., Duke, 1942.

Stanley Joseph Gross ... Assistant Professor of Obstetrics and Gynecology
B.S., Yale, 1946; M.D., College of Physicians and Surgeons, 1950.

Howard Theodore Guare ... Assistant Professor of Clinical Radiology
M.D., University of Vermont, 1934.

Calvin Hanna ... Assistant Professor of Pharmacology
B.S., University of Illinois, 1949; M.S., State University of Iowa, 1950, Ph.D., 1953.

Elbridge Eugene Johnston ... Assistant Professor of Clinical Medicine
M.D., University of Vermont, 1936.

Friedrich Wilhelm Klemperer ... Assistant Professor of Clinical Medicine
M.D., University of Freiburg, 1932.

Roy Korson ... Assistant Professor of Pathology

** Senior Lecturer in Biochemistry, St. Bartholomew's Hospital College of Medicine, London, England. Exchange Associate Professor of Biochemistry September 1, 1956 to September 1, 1957.
RAYMOND FRANK KUHLMANN  Assistant Professor of Clinical Orthopedic Surgery
B.A., University of Wisconsin, 1936; M.D., Washington University, 1939.

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

PETER PAUL LAWLOR  Assistant Professor of Clinical Medicine
M.D., University of Vermont, 1920.

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.

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

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

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

JAMES JOSEPH WALSH RALEIGH  Assistant Professor of Clinical Medicine
M.D., Long Island, 1939.

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

JOSEPH ROSENSTEIN  Assistant Professor of Clinical Radiology
A.B., University of Michigan, 1938; M.D., University of Lausanne (Switzerland), 1942.

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

CHARLES WATTLES STEPHENSON  Assistant Professor of Clinical Psychiatry
A.B., Williams, 1919; M.D., Harvard, 1922.

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

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

MARSHALL COLEMAN TWEITCHELL, JR.  Assistant Professor of Ophthalmology
A.B., Williams, 1934; M.D., Harvard, 1938.

ALBERT FOBERG WESSEN  Assistant Professor of Medical Sociology
A.B., Yale, 1948; M.A., 1949; Ph.D., 1951.
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.

THOMAS WRIGHT MOIR CAMERON  Visiting Professor of
M.A., Edinburgh, 1922; Ph.D., London, 1924; Tropical Medicine
D.Sc., Edinburgh, 1926.

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

RALPH BANNISTER  Instructor in X-Ray Technique

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

DANIEL WILLIAM BENNINGHOFF  Instructor in Pathology
B.A., Yale, 1949; M.D., Columbia, 1953.

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

EDWARD HOBART BRAZELL, JR.  Instructor in Clinical Anesthesia
B.S., University of Florida, 1941; M.D., University of Vermont, 1953.

RICHARD EMILE BOUCHARD  Instructor in Medicine
M.D., University of Vermont, 1949; M.S., 1952.

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

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

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

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.

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

Ophth. Otol.
ALBERT JAMES CRANDALL, Instructor in Clinical Surgery
B.S., University of Vermont, 1930; M.D., 1933.
GINO ALDO DENTE, Instructor in Clinical Anesthesia
M.D., University of Vermont, 1941.
DONALD MERRITT ELDRED, Instructor in Clinical Psychology
A.B., Oberlin, 1931; A.M., Columbia, 1942.
LOUIS WILLIAM ESPOSITO, Instructor in Clinical Urology
B.S., University of Notre Dame, 1931; M.D., Johns Hopkins University, 1935.
WILLIAM THOMAS Fagan, Jr., Instructor in Clinical Urology
B.S., University of Vermont, 1945; M.D., 1948.
JOSEPH CLAYTON FOLEY, Instructor in Clinical Radiology
B.S., Middlebury, 1939; M.A., New York State College, 1940; M.D., University of Vermont, 1949.
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., Kyusyu Imperial University, 1946.
CARLETON RAYMOND HAINES, Instructor in Surgery (Oncology)
B.S., University of Vermont, 1941; M.D., 1943.
WILLIAM HERBERT JOHNSTON, Instructor in Clinical Radiology
B.S., University of Vermont, 1940; M.D., 1943.
SHEILA BRISCOE KAPLOW, Instructor in Pharmacology
JAY EDGAR KELLER, Instructor in Clinical Surgery
M.D., University of Vermont, 1940.
JEROLD FRANCIS LUCEY, Instructor in Pediatrics
A.B., Dartmouth, 1948; M.D., New York University, 1952.
JOHN FREDERICK LYNCH, Instructor in Clinical Industrial Surgery
B.S., University of Vermont, 1931; M.D., 1934.
CLARE KENT MARSHALL, Instructor in Clinical Psychiatry
JAMES BISHOP MCGILL, Instructor in Clinical Surgery
B.S., University of Vermont, 1944; M.D., 1946.
ERNST LEE MILLS, Instructor in Clinical Anesthesia
B.S., University of Vermont, 1938; M.D., 1942.
HENRY DAVIS MINOT, Jr., Instructor in Clinical Thoracic and Cardiac Surgery
A.B., Harvard, 1941; M.D., 1950.
DOROTHY JACKSON MORROW  Instructor in Clinical Pediatrics  
B.S., Boston University, 1936; M.D., Tufts, 1940.

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

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

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

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  
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DALLAS RICHARD BOUSHEY
Senior Technician in Anatomy

NURSE
MRS. EDYTHE BARKER LADD, R.N.
Dispensary Nurse

PHYSIOTHERAPIST
MRS. MARCIA MEANS WEBBER, B.S., C.P.T.

SOCIAL WORKER
MRS. JEANNE STEARN
A.B., University of Pittsburgh, 1932.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Education Details</th>
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<tbody>
<tr>
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<td>Research Assistant, Cardiopulmonary Laboratory</td>
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<td>MARY BREEN</td>
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<td>ROBERT HOWARD CURRIER</td>
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<td>EDWARD FREDERICK MERRILL</td>
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</tr>
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<td></td>
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</tbody>
</table>
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Harris Alfred Yandow, A.B.  Bronx Municipal Hospital, Bronx, N. Y.
PRIZES
JUNE 1956

CARBEE PRIZE
For greatest proficiency in the subject of Obstetrics
Robert Lyons Sullivan, B.S.

WOODBURY PRIZES IN MEDICINE
For greatest proficiency in Clinical Work in senior year
Philip Levin, A.B.
To the sophomore having the highest standing for two years of Medical Work
Alvin Rees Midgley, Jr., B.S.

LAMB FOUNDATION PRIZES
To the students showing greatest comprehension and appreciation of the Doctor-Patient Relationship
First: Don Richard Lipsitt, B.A., M.A.
Second: Edward David Fram, A.B.
Third: Donald Edward Holdsworth, A.B.

ALPHA OMEGA ALPHA
National Honor Medical Society
Elizabeth Ann Clark, B.S.
Kenneth Shiu Kee Ho, B.A.
Fred Dewitt Holford, Jr., A.B.
Hugh Sanford Levin, B.S.
Philip Levin, A.B.
Edward Okun
FOURTH YEAR:

William Edward Allard, Jr., B.S. Rutland
Dudley Moore Baker, B.A. Brattleboro
Herbert Patterson Beam, A.B. Burlington
Sanford Bloomberg, B.A., A.M. Burlington
Edwin Merriman Brown, B.S. Barton
Mrs. Patricia Hoilman Brown, A.B. Barton
James Donald Cherry, B.S. Chatham, N. J.
Larry Coletti, A.B., M.S. Norwich, Conn.
John Edward Crisp, A.B. Nashua, N. H.
Alfred Dorn, B.A., Brooklyn, N. Y.
Jack Edwin Farnham, B.A. Burlington
Daniel George Fischer, B.A. Hamden, Conn.
John C. Fulmer, Barton Jerome Gershon, B.S. Rye, N. Y.
Archie Sidney Golden, B.A. Burlington
Jerrold Gilbert Goldman, B.A., M.S. New Milford, Conn.
Leonard William Halling, B.A. New York, N. J.
Howard Smith Irons, B.A. Aurora, Ill.
Philip Bernard Kaplan, B.A. Bennington
Leonard Kreisler, B.S. Burlington

Denton Edward MacCarty, B.S. Burlington
Bruce Russell MacKay, A.B. Sheldon Springs
Peter Rolf Manes, B.A. Bennington
Mark Richard Margiotta, B.A. Waterbury, Conn.
Richard Noah Matus, B.S. North Conway, N. H.
Thomas Craig McBride, B.A. Chicago, Ill.
Walter Francis Miner, A.B. Akron, Ohio
Theodore Leon Munsat, A.B. Rutland
William Andrew O'Rourke, Jr., B.S. Rutland
Stuart Oster, B.A. Brooklyn, N. Y.
Carl Lee Perry, B.A. Burlington
Francis Lee Perry, B.S. Rutland
Edward Joseph Quinlan, B.A. Bristol, Conn.
Frank Joseph Schmetz, Jr., A.B. Merchandise, N. J.
John Alfred Schremly, Jr., A.B. Rutland
Joel Nathan Shepard, B.S. West New York, N. J.
William Meyer Soybel, A.B. Hamden, Conn.
Arnold Clifford Tays, B.A., D.D.S. Merrifield, Minn.
Hollis Norman Truax, B.A. Burlington
Donald Nicholas Zehl, B.A., M.S. New Haven, Conn.

THIRD YEAR:

Michael Wayne Abdalla, B.A. Burlington
Seymour Alpert, A.B., M.S., Brooklyn, N. Y.
Jaroslav Michael Bandera, B.A. Glastonbury, Conn.
Peter John Bartelloni, B.A. Burlington
Eugene Modano Beuapré, B.S. Barre
Bernard Raymond Blais, B.S. Winooski

Bernard Gille Boucher, B.S. Highgate Center
Barbara Ellen Brunet, B.A. Springfield, Mass.
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Laurence Chester Chase, B.A. Littleton, N. H.
Leslie Erwin Chusid, B.A. Barre
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N. Tonawanda, N. Y.
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South Norwalk, Conn.
Neil George Diorio, B.S.,
South Norwalk, Conn.
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Walpole, Mass.
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Brooklyn, N. Y.
Daniel James Hanson, Jr., B.S.,
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Manchester, N. H.

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Salomon Bensimhon, B.A.  
Fez, French Morocco

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Trenton, N. J.

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Gerald Francis D’Ancicco, B.A.  
W. Haven, Conn.

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William Hotchkiss Doolittle, 
Cheshire, Conn.

John Bowns Fenning, B.S.  Bradford

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

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


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Alan Weisel, B.S.  Stamford, Conn.

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Thomas Gerald Howrigan  Fairfield

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Robert Livingston, B.S.  W. Hartford, Conn.

Richard Milton Narkewicz, A.B.  
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Marvin Alfred Nierenberg  Jamaica, N. Y.

Harold Weldon O’Brien, B.A.  
Sangerville, Me.

Audrey Jean Opulski, B.A.  
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John Joseph Oullette, A.B.  Tanbridge

Artemas John Wise Packard  Hanover, N. H.
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephen George Pappas, B.S.</td>
<td>Somersworth, N. H.</td>
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<tr>
<td>Michael Jerome Parkhurst, A.A., A.B.</td>
<td>S. Portland, Me.</td>
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<td>William Theodore Perrotte, Jr., A.B.</td>
<td>Burlington</td>
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<td>Lawrence Charles Schine, A.B.</td>
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<td>Marvin Goddard Sheffield, B.A.</td>
<td>Essex Jct.</td>
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<tr>
<td>Joseph Michael Siegel</td>
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<td>Manchester, N. H.</td>
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<td>Leominster, Mass.</td>
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<td>Hanover, N. H.</td>
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<td>Waterbury, Conn.</td>
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<tr>
<td>Fred Anthony Ziter, A.B.</td>
<td>Barre</td>
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