1962

University of Vermont, College of Medicine Bulletin

University of Vermont

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1. DeGoesbriand Memorial Hospital.

2. Old College of Medicine Building.

3. Mary Fletcher Hospital.

4. New College of Medicine Buildings.
Address all communications to the Dean's Office,
College of Medicine, University of Vermont,
Burlington, Vermont
Telephone UN 4-4511, extension 251
CALENDAR

1962-63

September 14  Friday  Enrollment and Payment of Fees.
September 15  Saturday  Convocation.
September 17  Monday  Class Work and Assignments Begin.

1ST YEAR

1ST QUARTER:  Sept. 17 (Mon.) through Nov. 10 (Sat.)
   Nov. 7-10 Wednesday through Saturday. Midsemester Examinations.

2ND QUARTER:  Nov. 12 (Mon.) through Feb. 2 (Sat.)
   Nov. 21-25 Wednesday through Sunday. Thanksgiving Recess.
   Dec. 20-Jan. 2 Thursday through Wednesday. Christmas Recess.
   Jan. 3 Thursday. Classes Resume.
   Jan. 25-30 Friday through Wednesday. Examinations.
   Jan. 31-Feb. 3 Thursday through Sunday. Vacation.

3RD QUARTER:  Feb. 4 (Mon.) through March 31 (Sun.)
   Feb. 4 Monday. Classes Resume.
   Feb. 5 Tuesday. Enrollment.
   Feb. 22-23 Friday and Saturday. Kake Walk—No Classes.
   Mar. 27-30 Wednesday through Saturday noon. Midsemester Examinations.

4TH QUARTER:  April 1 (Mon.) through June 5 (Wed.)
   Apr. 14-21 Sunday through Sunday. Spring Recess.
   Apr. 22 Monday. Classes Resume.
   May 29 Wednesday. Last Day of Classes.
   May 31-June 5 Friday through Wednesday. Examinations.

2ND YEAR

1ST FIFTH:  Sept. 17 (Mon.) through Nov. 3 (Sat.)
   Nov. 1-3 Thursday through Saturday. Examinations.

2ND FIFTH:  Nov. 5 (Mon.) through Dec. 19 (Wed.)
   Nov. 5 Monday. Classes Resume.
   Nov. 21-25 Wednesday through Sunday. Thanksgiving Recess.
   Dec. 20-Jan. 2 Thursday through Wednesday. Christmas Recess.

3RD FIFTH:  Jan. 3 (Thurs.) through Feb. 21 (Thurs.)
   Jan. 3 Thursday. Classes Resume.
   Feb. 5 Tuesday. Enrollment.
   Feb. 18-21 Monday through Thursday. Examinations.
   Feb. 22-23 Friday and Saturday. Kake Walk—No Classes.

4TH FIFTH:  Feb. 25 (Mon.) through April 13 (Sat.)
   Apr. 10-13 Wednesday through Saturday. Examinations.
   Apr. 14-21 Sunday through Sunday. Spring Recess.

5TH FIFTH:  April 22 (Mon.) through June 8 (Sat.)
   Apr. 22 Monday. Classes Resume.
   May 30 Thursday. Memorial Day—No Classes.
   June 1 Saturday. Last Day of Classes.
   June 3-8 Monday through Saturday. Examinations.
3RD YEAR

1ST TRIMESTER: Sept. 17 (Mon.) through Dec. 2 (Sun.)

2ND TRIMESTER: Dec. 3 (Mon.) through March 10 (Sun.)
   Dec. 20-Jan. 2 Thursday through Wednesday. Christmas Recess.
   Jan. 3 Thursday. Assignments Resume.
   Feb. 5 Tuesday. Enrollment.

3RD TRIMESTER: March 11 (Mon.) through June 8 (Sat.)
   Apr. 14-21 Sunday through Sunday. Spring Vacation.

4TH YEAR

1ST FIFTH: July 30 (Mon.) through Sept. 22 (Sat.)
   July 30 Monday. Enrollment.
   July 31 Tuesday. Assignments Begin.

2ND FIFTH: Sept. 24 (Mon.) through Nov. 17 (Sat.)

3RD FIFTH: Nov. 19 (Mon.) through Jan. 26 (Sat.)
   Dec. 20-Jan. 2 Thursday through Wednesday. Christmas Recess.
   Jan. 3 Thursday. Classes Resume.

4TH FIFTH: Jan. 28 (Mon.) through March 23 (Sat.)

5TH FIFTH: March 25 (Mon.) through May 18 (Sat.)
   Apr. 14-21 Sunday through Sunday. Spring Recess.
   May 18 Saturday. Last Day of Assigned Work.
   May 20-22 Monday through Wednesday. Pre-examination Days.
   May 23-29 Thursday through Wednesday. Examinations.
   May 30-June 7 Thursday through Friday. Vacation.
   June 8 Saturday. Class Day.
   June 9 Sunday. Graduation.
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UNIVERSITY ADMINISTRATION

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* Deceased June 3, 1962.
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THE COLLEGE OF ARTS AND SCIENCES
George Vincent Kidder, Ph.D., Dean

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

THE COLLEGE OF AGRICULTURE AND HOME ECONOMICS
Paul Robert Miller, M.S., Dean

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

THE COLLEGE OF TECHNOLOGY
Edd Ruthven McKee, M.S.E.E., Dean

Included in this college are curricula in civil, electrical, mechanical and management engineering; professional chemistry; commerce and economics; and medical technology. Majors in the Department of Commerce and Economics may specialize in options which include accounting; banking, finance and insurance; business administration; industrial management, marketing and merchandising; and secretarial studies.

THE COLLEGE OF EDUCATION AND NURSING
Thomas Clair King, Ed.D., Dean

Four-year curricula are offered leading to the Bachelor of Science degree in the fields of elementary, secondary, business and music education; and a four-calendar-year curriculum leading to the degree of Bachelor of Science in Nursing.

THE COLLEGE OF MEDICINE
Robert James Slater, M.D., Dean

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

THE GRADUATE COLLEGE
Charles Ernest Braun, Ph.D., Dean

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

THE SCHOOL OF DENTAL HYGIENE
Wadi I. Sawabini, D.D.S., Director

A two-year program is offered which leads to a Certificate in Dental Hygiene. Recipients of the certificate are eligible to take all state board examinations for licensing as dental hygienists.

THE SUMMER SESSION
Raymond Virgil Phillips, Ph.D., Director

Courses are offered on both the graduate and undergraduate level in many subjects under the regular staff as well as special classes given by visiting instructors.
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1962-1963

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Kerr L. White

Edward C. Andrews, Jr. (Liaison Member)
George A. Schumacher (Consultant)

William H. Macmillan
A. Bradley Soule, Jr.

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The DeGoesbriand Memorial Hospital
The Mary Fletcher Hospital

John S. Hanson
Jerold F. Lucey
Cornelius I. Meeker
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John C. Twitchell

Robert J. McKay
Lester E. Richwagen
John F. Berry

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

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

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

In 1911 the faculty of the College of Medicine was reorganized and became an integral part of the University. In 1912 one year of college work was required for admission and the College of Medicine year was made equal in length to that of the academic college. Two full years of college work were required for admission in 1917. In 1920 women were admitted to the College of Medicine. In recent years all the students have completed four years of college prior to entrance into the College of Medicine.
In 1957 ground was broken for Phase I of a new College of Medicine building. Phase I was dedicated in September, 1959. Phase II was completed and occupied in September, 1962. Planning for Phase III is under way but not yet advanced enough to estimate the time of completion.

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.
STUDENT INFORMATION

REQUIREMENTS FOR ADMISSION

The College of Medicine requires that an applicant hold a Bachelor's degree, and that his four years of college work be taken in an institution listed among the "Accredited Institutions of Higher Education," compiled and published by the National Committee of Regional Accrediting Agencies of the United States. The College of Medicine requires one year each of:

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

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

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

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

Eligibility of an applicant for admission to the College of Medicine 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.
4. All applicants are required to submit a health report completed by their college or university health service and not by their personal physician.
A maximum of fifty students is admitted to the entering class. Preference for admission is according to the following priorities:

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

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

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

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

ENROLLMENT

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

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

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

ADMISSION OF STUDENTS TO ADVANCED STANDING

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

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

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

A personal interview is required of all applicants for admission by transfer to the College of Medicine. Preference will be given according to the policy for first-year students.
Students dismissed by reason of failing grades from other institutions will not be considered for admission to any class in the College of Medicine.

FEES AND EXPENSES

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Athletic Fee</td>
<td>30.00</td>
</tr>
<tr>
<td>Books and other supplies</td>
<td>200.00</td>
</tr>
<tr>
<td>Fee for late registration</td>
<td>6.00</td>
</tr>
<tr>
<td>Tuition Fee for each session for Vermont students and bona fide residents of states having contractual arrangements with the University of Vermont College of Medicine</td>
<td>$500.00</td>
</tr>
<tr>
<td>Tuition Fee for other students</td>
<td>1,500.00</td>
</tr>
<tr>
<td>Medical Student Activity Fee</td>
<td>10.00</td>
</tr>
<tr>
<td>Medical Student Activity Fee (For Student Council and Year Book)</td>
<td></td>
</tr>
<tr>
<td>Microscope rental (required first and second years)</td>
<td>40.00</td>
</tr>
<tr>
<td>Locker Fee for first year</td>
<td>1.00</td>
</tr>
<tr>
<td>Locker Key Deposit—Paid on admission; refunded end of year</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Average Range

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

Medical students may, by paying the student activity fee of $15.00, become entitled to the benefits students receive from payment of that fee as described in the general catalogue of the University.

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 Building.

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

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

In the event of withdrawal from college, refunds are made as follows:

- During the first week of any semester the full tuition is refunded.
- Thereafter 20 percent of the tuition is deducted for each week that has elapsed.

LIVING ACCOMMODATIONS

Information regarding living accommodations may be obtained from the Housing Bureau in the Waterman Building.
THE UNIVERSITY OF VERMONT

HONORS AND PRIZES

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

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

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

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

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

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

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

*Lamb Foundation Prizes.*—Prizes of $150, $100 and $50 will be offered during the year 1962-1963 by the Lamb Foundation to students in the College of Medicine. The awarding of these prizes is based upon essays submitted concerning the problems of the physician-patient relationship.

SCHOLARSHIPS AND LOAN FUNDS

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

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

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

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

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

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

The Edith Blanche Kidder Scholarship Fund was established by the late Joseph W. Kidder. This is for students in the College of Medicine, preference being shown to legal residents of Barre, Vt. 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, Mass., provides scholarship aid for medical students.

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

Student loan funds are available through the National Defense Education Act of 1958. For details, see the current issue of the University Bulletin.

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

The Avalon Foundation has provided the College of Medicine with a grant of $10,000 to be used as an unrestricted supplement to its scholarship funds for the year 1962-63. Scholarship aid is to be granted to students on a combined basis of financial need and scholarship attainment.

A scholarship has been made available in the amount of $1,000 by the Pfizer Laboratories Division of Chas. Pfizer and Company, Inc., to apply toward the academic and subsistence expenses of one medical student during the 1962-63 college year. Selection of the recipient is made by the Committee on Prizes and Awards on the basis of scholastic record, financial need, or both.

The G. Stedman Huard Medical Student Loan Fund is available:

(1) To students residing in Winooski, Vt.
(2) To students residing in other areas of Vermont.
A medical scholarship fund was established in 1962 by Dr. Aldo J. Leani and is available for medical students.

The American Medical Association has established the Medical Education Loan Guarantee Program whereby loans are available to medical students who are residents of the United States.

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.

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

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

STUDENT RESEARCH FELLOWSHIPS

A number of research fellowships are awarded each year to students who conduct research projects under supervision of a faculty member. These fellowships are supported by grants received from various sources. The number of fellowships available vary from year to year. Student research fellowships carry a stipend of $60 per week and are awarded for investigative work during the summer. Application should be made to Department Chairman.

There are also several post-sophomore fellowships available for students who wish to take a year's leave for advanced study in a basic science department. The annual salary is approximately $3,200 per year. Under this plan, some students complete work for the Master's degree.

LECTURESHIPS

Laurence Barnes Hayward Memorial Speakership in Medical Rehabilitation.

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


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

Wayne Griffith Memorial Lecture.

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

ATTENDANCE
a. Attendance upon the exercises assigned for the year is obligatory. Failure to attend 80 per cent of the exercises of any course constitutes a failure in that course.
b. Students must wait 10 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. In a repeat performance of the work of any year, a student must have an average of at least 80 and must not fail any courses whether major or minor.
h. A student, whose grade average for the year is less than 80, may be required, after review of his status by the Committee on Advancement and formal approval of the faculty, to withdraw from the College.
i. A student who has been a member of either the first, second, or third-year class for two school years, and has failed to fulfill the requirements for advancement, or a student who has been a member of the fourth-year class for two school years and has failed to fulfill the requirements for graduation will not be enrolled again as a student of the College of Medicine.

j. The Faculty may recommend the dismissal at any time of a student who is considered to be unfit for a career in medicine.

k. 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.

I. 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.

m. 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.

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

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

p. 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.

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

r. Special rules affecting each class:

(1) 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.

(2) 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. At the end of the second year, students are advised but not required, to take Part I Examinations of the National Board of Medical Examiners.

(3) 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.

(4) 4th year: Fourth-year students may be required to take a comprehensive examination upon recommendation of a department chairman unless excused by the Dean of the College. They are advised, but not required, to take Part II Examinations of the National Board of Medical Examiners.
REQUIREMENTS FOR GRADUATION

Candidates for the degree of Doctor of Medicine must have reached the age of twenty-one years and must be of good moral character. All the requirements of this college in regard to preliminary education must have been met, and the candidate must have attended regularly and completed satisfactorily the prescribed work of the four courses of instruction. Students must have discharged all current indebtedness to the University.

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

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

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

ACCREDITATION

The University of Vermont College of Medicine is one of 85 accredited schools of medicine in the United States, having been approved by the American Medical Association and by the Association of American Medical Colleges.

Its joint residency programs with the DeGoesbriand Memorial Hospital and the Mary Fletcher Hospital have been approved by the Council on Medical Education and Hospitals of the American Medical Association and by the respective American Boards.

MEDICAL COLLEGE PROGRAM AND OBJECTIVES

The formal program of training in the College of Medicine consists of four years. During this period the objective is to provide students with a sound foundation for careers in any branch of medicine, to create the desire for and to prepare them for further training in the many different fields of endeavor.

Since medicine increasingly embraces broad and extensive fields of knowledge, specialized training in a specific area is deferred until graduation. Postgraduate training may continue one to five years by means of internships, residencies or research.

Emphasis is placed upon development of ability to evaluate objectively the trends and advances in medicine, to inculcate attitudes and ideals whereby medicine is a dedicated way of life.

The development of high ethical standards against a background of liberal education provides a basis for proficiency of the student not only in the science and art of medicine, but also in meeting civic and social responsibilities within the community in which he will practice.
GENERAL PLAN OF THE CURRICULUM

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

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

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

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

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

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

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

GRADUATE BASIC SCIENCE PROGRAM

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

Details of these programs may be obtained from the catalogue of the Graduate College of the University of Vermont.
An internship in an approved hospital is considered essential in preparing for the practice of medicine. At the conclusion of the internship year, many graduates seek additional education by serving as residents or fellows for periods up to five years.

The Internship Committee assists students in obtaining appointments as interns. Third-year students are provided with information regarding available internships and are counseled in the selection of hospitals for their future training.

The College of Medicine participates in the National Internship Matching Program.

An active interest is maintained in graduates of the College of Medicine and the College is pleased to offer its continued support to them as they seek advanced training or staff appointments.

RESEARCH

Although the chief objective of the College of Medicine lies in teaching students the science and art of medicine, another important objective is research into causes of diseases and improvements in their treatment.

Investigations in progress at the College, numbering more than one hundred, are supported by grants and by gifts amounting to over one million dollars annually—a thirty-fold increase in the past 15 years.

TEACHING FACILITIES

THE COLLEGE OF MEDICINE BUILDINGS

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

The Department of Psychiatry and the teaching laboratories of Pharmacology occupy the Annex. Part of the animal quarters are located adjacent to this area.

Teaching and research facilities of the Department of Pathology, teaching facilities of the Department of Medical Microbiology, and laboratories for clinical research are contained in Phase I of the new College of Medicine building which forms part of the eastern boundary of the University campus. Phase II, first wing of the Medical Sciences building, completed in 1962 provides additional research space for the Departments of Biochemistry, Medical Microbiology, Pharmacology and Animal Care. Ultimately all of the basic science facilities will be located in this area.

The Department of Epidemiology and Community Medicine, including the Family Care Unit, occupies Mansfield House.
THE MARY FLETCHER HOSPITAL. This general hospital has 310 beds and 38 bassinets. It has been associated with the College of Medicine as a teaching hospital since 1879, and treats all diseases without limitation. Most recent developments have been open-heart, cerebrovascular and microsurgery. The hospital has a yearly average of approximately 83,635 patient days. At least two-thirds of the patients are available for teaching purposes through the use of free and part-pay beds and the use of private patients by attending staff men as members of the faculty of the College of Medicine. The hospital's facilities have been expanded almost continuously. Buildings costing $2,700,000 have been completed in 1961 providing greatly expanded services and additional beds. The hospital is approved by the American Medical Association for intern training and for residencies in anesthesia, medicine, neurology, neurosurgery, obstetrics-gynecology, otolaryngology, pathology, pediatrics, radiology, surgery and urology. A residency in psychiatry is still pending at this time.

Besides medical teaching, educational programs are conducted in nursing, x-ray technique, laboratory technology, hospital administration and physical therapy. The recent addition of a cinefluoroscopy unit has greatly aided the accuracy of diagnosis and treatment. Research is an important part of the hospital program.
THE DEGOESBRIAND MEMORIAL HOSPITAL. The DeGoesbriand Memorial Hospital is a modern and completely equipped general hospital and houses the Vermont Rehabilitation Center. There is, in addition, an area devoted to clinical research. The present capacity of the hospital is 300 beds and 35 bassinets. Over 21,000 patients are treated annually. All the specialty services are represented. All cases, both service and private, are used for teaching. Medical students and house staff are both under the close 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. There are approved residencies in anesthesia, general practice, medicine, neurology, neurosurgery, obstetrics-gynecology, otolaryngology, pathology, pediatrics, radiology, surgery and urology.
AMBULATORY PATIENT AND HOME CARE FACILITIES

FAMILY CARE UNIT. The Family Care Unit is located in the Epidemiology and Community Medicine building at 25 Colchester Avenue. It is a family medicine demonstration of combined preventive and curative medical care. Junior and senior students participate in the program throughout their clinical years. Under the supervision of instructors in the Department of Epidemiology and Community Medicine, the students in junior-senior pairs provide health supervision and maintenance to selected families. Approximately 1,500 visits are made during the academic year. These visits include both house calls and office visits.

DURFEE MEMORIAL CLINIC. The Clinic is located in the Mary Fletcher Hospital. Approximately 11,500 patient visits are made each year to twenty-five general and specialty clinics. Patients must be referred by the Family Care Unit or practicing physicians. Under the supervision of Medical College staff specialists, the student receives a major portion of his training in the fourth year through this outpatient service.

DEGOESEBRIAND MEMORIAL OUTPATIENT DEPARTMENT. Five thousand two hundred forty-nine visits to general and specialty clinics are made annually. These clinics are supervised by University of Vermont staff members.

MEDICAL MUSEUM

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

STATE LABORATORY FACILITIES

In addition to the teaching laboratories of the College of Medicine, the laboratories of the Vermont State Department of Health are available for bacteriological, diagnostic, serological, medico-legal, food and water testing.
<table>
<thead>
<tr>
<th>HOURS</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:50</td>
<td>Biochemistry</td>
<td>Biochemistry (first 9 wks.)</td>
<td>Biochemistry</td>
<td>Psychobiology†</td>
<td>Biochemistry</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Anatomy (remainder of yr.)</td>
<td></td>
<td>Epidemiology and Community Medicine Sessions†</td>
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<tr>
<td>9:00-9:50</td>
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</tr>
<tr>
<td>10:00-10:50</td>
<td>Anatomy*</td>
<td>Anatomy</td>
<td>Physiology</td>
<td>Physiology</td>
<td>Anatomy</td>
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</tr>
<tr>
<td>11:00-11:50</td>
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</tr>
<tr>
<td>1:00-1:50</td>
<td>Biochemistry</td>
<td>Anatomy</td>
<td>Physiology (sec. a)</td>
<td>Physiology (sec. b)</td>
<td>Anatomy</td>
<td></td>
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<td>2:00-2:50</td>
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<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 Three-fifths of Year 1962-63

<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>Medical Microbiology</td>
<td>Pathology</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>9:00-9:50</td>
<td>Medical Microbiology</td>
<td>Pharmacology</td>
<td>Pathology</td>
<td></td>
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</tr>
<tr>
<td>10:00-10:50</td>
<td>Pharmacology</td>
<td>Pharmacology</td>
<td>COURSE C: Introduction to Clinical Medicine</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>11:00-11:50</td>
<td>Pharmacology</td>
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<td>Pharmacology</td>
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</tr>
<tr>
<td>1:00-1:50</td>
<td>Pharmacology (sec. a)</td>
<td>Pharmacology (sec. b)</td>
<td>Pharmacology</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2:00-2:50</td>
<td>Pharmacology (sec. a)</td>
<td>Pharmacology (sec. b)</td>
<td>Pharmacology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00-3:50</td>
<td>Pharmacology (sec. b)</td>
<td>Pharmacology (sec. b)</td>
<td>Medical Microbiology</td>
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<td></td>
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</tr>
<tr>
<td>4:00-4:50</td>
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<td>Medical Microbiology</td>
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</table>

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

Last Two-fifths of Year 1962-63

<table>
<thead>
<tr>
<th>Hours</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00- 8:50</td>
<td>COURSE A: Pathology</td>
<td>COURSE C: Introduction to Clinical Medicine</td>
<td>COURSE C: Introduction to Clinical Medicine</td>
<td>COURSE C: Introduction to Clinical Medicine</td>
<td>COURSE C: Introduction to Clinical Medicine</td>
<td>COURSE C: Introduction to Clinical Medicine</td>
</tr>
<tr>
<td>9:00- 9:50</td>
<td></td>
<td></td>
<td>COURSE A: Pathology</td>
<td></td>
<td></td>
<td>COURSE A: Surface Anatomy</td>
</tr>
<tr>
<td>10:00-10:50</td>
<td>COURSE A: Pathology</td>
<td>COURSE A: Pathology</td>
<td></td>
<td></td>
<td>COURSE A: Elicitation of Data</td>
<td></td>
</tr>
<tr>
<td>11:00-11:50</td>
<td>COURSE A: Epidemiology and Community Medicine</td>
<td></td>
<td></td>
<td></td>
<td>COURSE A: Epidemiology and Community Medicine</td>
<td></td>
</tr>
<tr>
<td>1:00- 1:50</td>
<td>COURSE A: Radiological Science</td>
<td>COURSE C: Introduction to Clinical Medicine</td>
<td></td>
<td>COURSE A: Surface Anatomy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00- 2:50</td>
<td>COURSE B: Elicitation of Data</td>
<td>COURSE B: Elicitation of Data</td>
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<td>COURSE B: Elicitation of Data</td>
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<tr>
<td>3:00- 3:50</td>
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<td></td>
<td></td>
<td>COURSE B: Elicitation of Data</td>
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<td>4:00- 4:50</td>
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</tbody>
</table>

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

**1962-63**

**Surgical Trimester (12 weeks)**

(Other trimesters are: Medicine and Pediatrics)

<table>
<thead>
<tr>
<th>HOURS</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-9:00</td>
<td>Tutor</td>
<td>Genito-urinary Conference</td>
<td>Tutor</td>
<td>Fracture Conference</td>
<td>Tutor</td>
<td>Surgical Conference</td>
</tr>
<tr>
<td>9:00-10:00</td>
<td>Neurosurgical Rounds</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>ENT Conference</td>
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</tr>
<tr>
<td>11:00-12:00</td>
<td>Special Lecture</td>
<td></td>
<td>Special Lecture</td>
<td></td>
<td>Special Lecture</td>
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</tr>
<tr>
<td>12:00-1:00</td>
<td>Special Lecture</td>
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<td>Special Lecture</td>
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<tr>
<td>1:00-2:00</td>
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</tr>
<tr>
<td>2:00-3:00</td>
<td>Otolaryngology</td>
<td>Pathological Surgery</td>
<td></td>
<td>X-ray Conference</td>
<td>Urology</td>
<td>Thoracic Surgery</td>
</tr>
<tr>
<td>3:00-4:00</td>
<td>Anesthesiology</td>
<td>Chest Conference</td>
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</tr>
<tr>
<td>4:00-5:00</td>
<td>X-ray Conference</td>
<td>Surgical Rounds</td>
<td>Oncology</td>
<td>Surgical Rounds</td>
<td>Surgical Rounds</td>
<td></td>
</tr>
</tbody>
</table>

All hospital rounds and conferences not listed will be available for student attendance. Students spend unassigned time on the wards of the hospitals as clinical clerks. Durin the year, students will participate in the Family Care Unit program.
FOURTH YEAR SCHEDULE
1962-63

Detail of Rotation

<table>
<thead>
<tr>
<th>1ST FIFTH</th>
<th>2ND FIFTH</th>
<th>3RD FIFTH</th>
<th>4TH FIFTH</th>
<th>5TH FIFTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicine</td>
<td>Surgery</td>
<td>Obstetrics</td>
<td>Surgical specialties</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective</td>
<td>Psychiatry</td>
<td></td>
</tr>
</tbody>
</table>

The fourth-year class is divided into five sections, each rotating through the above services but in different order. This affords the opportunity for small group instruction.
SUMMARY OF STUDIES 1962-1963

CLASSROOM AND LABORATORY HOURS

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>Total</th>
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<tbody>
<tr>
<td>Gross Anatomy</td>
<td>125</td>
<td>246</td>
<td>132</td>
<td>322</td>
</tr>
<tr>
<td>Histology and Embryology</td>
<td>132</td>
<td>132</td>
<td>44</td>
<td>298</td>
</tr>
<tr>
<td>Neuroanatomy</td>
<td>92</td>
<td>92</td>
<td>52</td>
<td>120</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>108</td>
<td>108</td>
<td>216</td>
<td>424</td>
</tr>
<tr>
<td>Physiology and Biophysics</td>
<td>116</td>
<td>116</td>
<td>216</td>
<td>401</td>
</tr>
<tr>
<td>Epidemiology and Community Medicine</td>
<td>14</td>
<td>14</td>
<td>56</td>
<td>208</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>14</td>
<td>14</td>
<td>68</td>
<td>208</td>
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<tr>
<td>Total hours</td>
<td>544</td>
<td>544</td>
<td>1,047</td>
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<th>Second Year</th>
<th>Hours</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>Total</th>
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<td>Course A</td>
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<tr>
<td>Anatomy</td>
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<td>Medical Microbiology</td>
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<td>Pathology and Clinical Pathology</td>
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<td>Pharmacology</td>
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<tr>
<td>Epidemiology and Community Medicine</td>
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<td>Psychiatry</td>
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<td>32</td>
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<td>Total hours</td>
<td>509</td>
<td>509</td>
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| Course B    |       |              |              |       |
| Elicitation of Data | 136   | 136          | 136          | 136   |

| Course C    |       |              |              |       |
| Introduction to Clinical Medicine | 106   | 106          | 106          | 106   |
| Total hours for year | 509   | 509          | 509          | 509   |

CLERKSHIPS

Third Year

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

Fourth Year

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

STUDENT COUNCIL

Elected representatives from each class, and the president of each class ex-officio, form a student council which meets with the Dean regularly during the academic year.

ALPHA OMEGA ALPHA

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

MEDICAL FRATERNITIES AND SOCIETIES

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

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

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

Phi Delta Epsilon

THE OSLER CLINICAL SOCIETY

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

STUDENT AMERICAN MEDICAL ASSOCIATION

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

MEDICAL STUDENTS WIVES CLUB

Wives of medical students meet frequently during the year for social activities and other projects. They share a lounge on the second floor of the Medical Alumni Building.

U.V.M. MEDICAL ALUMNI ASSOCIATION

The University of Vermont Medical Alumni Association, whose membership is made up of all graduates of the College of Medicine, is increasingly active in its support of the school and the student body.

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

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

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

For the year 1962-63 the following alumni serve as officers of the University of Vermont Medical Alumni Association:

President—George W. Starbuck, '38, New Bedford, Mass.
President-Elect—Edward M. Winant, '36, Bronxville, N. Y.
Vice-President—John C. Cunningham, '35, Burlington
Secretary-Treasurer—Ralph D. Sussman, '38, Burlington
Executive Committee—Dr. Arthur A. Gladstone, '31, Chairman, Burlington; Dr. A. Bradley Soule, Jr., '28, Burlington; Dr. Oliver R. Eastman, '38, Burlington
Obituary Committee—Dr. William T. Fagan, Jr., '48, Chairman, Burlington; Dr. Chester A. Newhall, '28, Burlington; Dr. Charles B. Rust, '39, Burlington
THE DEPARTMENTS IN THE COLLEGE OF MEDICINE

THE DEPARTMENT OF ANATOMY

Thayer Professor and Chairman of Department

Chester Albert Newhall, A.B., Northwestern College, 1924; M.D., University of Vermont, 1928.

Professors

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

Walter Alva Stultz, A.B., Acadia, 1927; Ph.D., Yale, 1932.

Professors Emeriti

Thomas Stephen Brown, M.D., University of Vermont, 1904.

Hovey Jordan, Ph.B., University of Vermont, 1913; M.S., 1914; A.M., Harvard, 1916.

Associate Professor

*Wilbert Franklin Chambers, A.B., University of West Virginia, 1941; M.S., 1946; Ph.D., University of Wisconsin, 1952.

Senior Technician

Dallas Richard Boushey.

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

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

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

Graduate Courses

Prerequisite—Permission of the Department Chairman.

301-302 Gross Anatomy. Study of the gross structure of the human body by means of general dissection, cross sections and special dissections. Lectures and laboratory, 320 hours. Fourteen credit hours. Drs. Newhall and Stultz.

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

322 Neuroanatomy. Gross and microscopic study of the central nervous system, by means of dissection of the brain, accompanied by microscopic examination of stained sections and reconstructions of the principal nervous pathways. Lectures and laboratory, 96 hours. Four credit hours. Drs. Chambers and Dunihue.

332 Surface and Radiological Anatomy. This is a course in Living Anatomy in which all available landmarks are studied and utilized in the placement of internal structures. A complete series of radiological plates is used to correlate radiological landmarks with the positions of deep structures. Prerequisite: 301-302. Lectures and laboratory. Two credit hours. Dr. Stultz.

341-342 Special Problems in Gross Anatomy. Special dissections of particular regions of the human body, utilizing either adult or fetal material or investigative work designed to advance knowledge of some special structure or relationship. Prerequisite: 301-302. Laboratory, special readings and discussions. Hours and credit as arranged. Drs. Stultz and Newhall.

351-352 Special Histology. Specific work as agreed upon by the instructors and the graduate student. A study of selected cells, tissues or organs by means of special techniques. Prerequisite: 311. Conferences and laboratory. Hours and credit as arranged. Drs. Dunihue and Chambers.
361-362  **Special Problems in Embryology.** Specific work as agreed upon by student and instructor. The study of some particular embryological problem utilizing special techniques, with directed reading. **Prerequisite:** Undergraduate course in Comparative Embryology (such as Zoology 111 at U. V. M.) and in particular cases, in Experimental Embryology (as Zoology course 222, U. V. M.). Hours and credit as arranged. Dr. Stultz.

371-372  **Special Problems in Neuroanatomy.** The study of some particular phase of Neuroanatomy, as selected by mutual consent, including minor investigations designed to serve as an introduction to research. **Prerequisite:** 322 or its equivalent. Readings, conferences and laboratory work. Hours and credit as arranged. Drs. Chambers and Dunihue.

**Seminars in Anatomy**

381-382  Gross Anatomy.  
383-384  Histology.  
385-386  Embryology.  
387-388  Neuroanatomy.

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

**Thesis Research in Anatomy**

391-392  Gross Anatomy.  
393-394  Histology.  
395-396  Embryology.  
397-398  Neuroanatomy.

Investigation of a research topic under the direction of an assigned staff member, designed to culminate in an acceptable Master’s thesis. Credit as arranged.
THE DEPARTMENT OF BIOCHEMISTRY

Professor and Chairman of Department
Donald Burton Melville, B.S., University of Illinois, 1936; M.S., 1937; Ph.D., 1939.

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

Associate Professors
Erland Cheney Gjessing, B.S., Copenhagen, 1936; M.S., Michigan State, 1938; Ph.D., Cornell, 1942.
Merton Philip Lamdon, B.S., University of Massachusetts, 1941; Ph.D., Massachusetts Institute of Technology, 1947.
Arnold Harold Schein, B.S., College of the City of New York, 1936; Ph.D., University of Iowa, 1943.

Associate Professor (Clinical)
Ethan Allen Hitchcock Sims, B.S., Harvard, 1938; M.D., College of Physicians and Surgeons, Columbia University, 1942.

Instructors
Robert Cummings Woodworth, B.S., University of Vermont, 1953; Ph.D., Penn. State University, 1957.

Instructor (Clinical)

Research Associate

 Assistants
Boyd H. Carr, M.S.
Jeanne Choquette, B.S.
Betsy LaGrange, M.S.
Jack Levine, M.S.
John P. Ryan, B.A.
Leopold Wierzchicki, M.S.
The primary aim of the Department is to provide a sound biochemical foundation for the study of medicine.

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

Summer research fellowships in biochemistry are available to qualified medical students.

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

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

Graduate training includes the following:

Graduate Courses

Prerequisite—Permission of the Department Chairman.

301-302 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, respiration, cellular metabolism of carbohydrates, lipids, proteins and nucleic acids, blood, urine, tissues, body fluids, water and electrolyte balance, internal secretions, foods, nutrition, and vitamins. Laboratory work covering the above topics is largely quantitative. Lectures and conferences, 50 hours, first semester; 50 hours, second semester; laboratory, 60 hours, each semester. Five credit hours each semester.

311-312 Biochemical Preparations. Students taking this course will synthesize and prepare from natural sources important biologic compounds. These substances may be subjected to chemical and physiological examination for identity and purity. With the assistance of the staff, the student will review the literature and choose suitable laboratory methods. Laboratory, 4 hours per week, 15 or 30 weeks. Offered either first or second semester and in summer. Two credit hours per semester.

321 Enzymology. The general principles of enzyme chemistry are studied using specific enzymes as examples. Topics include isolation, purification, and characterization of enzymes; kinetics, specificity, inhibitors, enzyme-substrate interactions, the nature of the active site, induction and adaptation. Laboratory experiments are chosen to demonstrate the subject matter and to acquaint the student with a wide variety of techniques used in enzymology. Lectures, seminars and laboratory. One semester, 5 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. Lectures and seminars. *Two x 1.5 hours per week.* *Three credit hours.*

361 **Vitamins in Metabolism.** A study of the absorption, availability and biosynthesis of vitamins, the role of vitamins in intermediary metabolism, vitamin interrelationships, vitamin-hormone interrelationships, analogs and antivitamins, avitaminoses in man and animal, and vitamin requirements. Laboratory experiments are designed to give experience in chemical, biological and microbiological assay methods. Lectures and seminars, *2 x 1.5 hours per week.* Laboratory, *1 x 4 hours per week.* *Five credit hours.*

371 **Physical Biochemistry.** A survey of such topics as protein interaction, solubility and fractionation, electrophoresis, sedimentation, diffusion, viscosity, spectrophotometry, rotary dispersion, energetics of biochemical reactions, and related subjects. Lectures and seminars *2 x 1 hour per week.* *Two credit hours.*

381 through 389 **Seminar.** Discussions of recent developments and current literature in the various fields of biochemistry. *One hour per week.* Hours to be arranged.

391 through 399 **Master’s Thesis Research.** Investigation of a research topic under the direction of a staff member, culminating in an acceptable Master’s thesis. *Credit as arranged.*

491 through 499 **Doctoral Thesis Research.** Original research under the direction of a staff member, culminating in an acceptable doctoral dissertation. *Credit as arranged.*
DEPARTMENT OF EPIDEMIOLOGY AND COMMUNITY MEDICINE

Professor and Chairman of Department

Professor Emeritus

Associate Professor
Robert Bascom Aiken, Ph.B., University of Vermont, 1931; M.S., 1933; M.D., 1937; M.P.H., Harvard, 1948.


Assistant Professors
James Owen Culver, B.A., Stanford, 1936; M.D., 1950; M.P.H., University of California, 1959.

Frank James Falck (Speech Pathology), A.B., University of Kentucky, 1950; M.A., 1951; Ph.D., Pennsylvania State University, 1955.

Thomas Chometon Gibson, B.A., Clare College (Cambridge University), 1942; M.A., 1945; M.B., B.Ch., 1946.


Assistant Professor Emeritus
Charles Perkins Moat, B.S., Massachusetts Institute of Technology, 1896.

Instructors
Edward Byington Crane (Family Medicine), A.B., Dartmouth, 1945; M.D., University of Vermont, 1947.
John Clifford Lantman (Family Medicine), B.S., University of Vermont, 1948; M.D., 1951.
Hyman Bernard Levine (Family Medicine), B.S., University of Vermont, 1930; M.D., 1939.
Audrey Jeanne Naylor, B.A., University of California (Berkeley), 1953; M.D., University of California (Los Angeles), 1956.
Ruth Ann Preton, B.S., Cornell, 1946; B.S. in Nursing, Johns Hopkins, 1949; M.S., Syracuse, 1957.
Robert Pese Smith (Rehabilitation), A.B., Princeton, 1939; M.D., Harvard, 1943.

Instructor (Clinical)

Instructors Emeriti
Henry Lee Mills, D.V.M., Grand Rapids Veterinary College, 1911.
Viola Russell, A.B., Vassar, 1913; M.D., University of Michigan, 1917.

Fellow

Research Associates

Assistants
Edgar L. Bacon, B.S.
Mrs. Carol Evans, B.S.

The Department is organized primarily to afford instruction in epidemiology and community medicine to students in the College of Medicine. Instruction is carried out through all four years of the medical curriculum. A limited amount of instruction is given to students in the Department of Nursing, in conjunction with the Family Care Unit program.

Teaching in epidemiology, biostatistics and preventive medicine is emphasized. In addition, it is considered important to emphasize combined preventive and curative aspects in the care of individuals and of groups.

In addition to the teaching aspects of the program, the Department has current ongoing responsibilities in research. Service aspects of departmental functions are particularly related to the needs of this region.
THE DEPARTMENT OF MEDICAL MICROBIOLOGY

Professor and
Chairman of Department

Fred W. Gallagher, A.B., Western Reserve University, 1929; M.A., Ohio State University, 1936; Ph.D., 1939.

Assistant Professors

Paul Daniel Ellner, B.S., Long Island University, 1949; M.S., University of Southern California, 1952; Ph.D., University of Maryland, 1956.


Assistants

Mrs. Holly Cross, B.S.
Mrs. Susan Hein, M.S.
Jean Long, B.S.
The primary objective of the course in Medical Microbiology is to impart to the student an understanding of the relationship of microorganisms to disease in man. To this end, the student needs an understanding of the basic life processes of microorganisms as well as an understanding of how they cause disease and how the body reacts toward them.

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

The department offers programs of graduate study leading to the Master of Science and Doctor of Philosophy degrees.

**Graduate Courses**

*Prerequisite—Permission of the Department Chairman.*

201 Medical Microbiology. First semester, 7 credit hours.

301 Special Problems in Bacteriology. Minor investigations in bacteriology designed to serve as an introduction to research. Prerequisite: Medical microbiology or its equivalent. Two credit hours.

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

312 Genetics of Microorganisms. Three credit hours. Prerequisite: Permission of the instructor.

322 Advanced Immunology and Immunochemistry. Two credit hours. Prerequisite: Permission of the instructor.

324 Advanced Immunology and Immunochemistry Laboratory. One credit hour. Prerequisite: Permission of the instructor.

381 through 389 Seminar. Attendance at the departmental seminar. One credit hour.

391 through 399 Master's Thesis Research. Investigation of a research topic under the direction of an assigned staff member. Prerequisite: Permission of the department. Credit as arranged.

491 through 499 Doctoral Thesis Research. Original research under the direction of an assigned staff member, culminating in an acceptable doctoral dissertation. Credit as arranged.
THE DEPARTMENT OF MEDICINE

Professor and Chairman of Department
Ellsworth Lyman Amidon, B.S., Tufts College, 1927; M.D., University of Vermont, 1932; M.S. (Med.), University of Pennsylvania, 1938.

Professor Emeritus (Clinical)
Paul Kendrick French, Ph.B., University of Vermont, 1920; M.D., 1923.

Associate Professors
Sinclair Tousey Allen, Jr., B.A., Williams College, 1936; M.D., Harvard, 1940.
Ethan Allen Hitchcock Sims, B.S., Harvard, 1938; M.D., College of Physicians and Surgeons, Columbia University, 1942.

Assistant Professors (Clinical)
John Sherwood Hanson (National Institutes of Health Special Fellow), B.A., Yale, 1951; M.D., New York University, 1954.
Wadi Sawabini (Oral Hygiene and Dental Medicine), D.D.S., American University of Beirut, 1940.

Assistant Professors (Clinical)
Richard Walker Amidon, B.S., University of Vermont, 1941; M.D., 1943.
James Henry Bannon, M.D., C.M., McGill, 1940.
Richard Emile Bouchard, M.D., University of Vermont, 1949; M.S., 1951.
Elbridge Eugene Johnston, M.D., University of Vermont, 1936.
Friedrich Wilhelm Klemperer, M.D., University of Freiburg, 1932.
Arthur Saul Kunin, A.B., Columbia, 1948; M.D., University of Vermont, 1952
Morris Williams Lambie, B.S., Harvard, 1942; M.D., University of Rochester, 1946.

Assistant Professors
Richard Emile Bouchard, M.D., University of Vermont, 1949; M.S., 1951.
Harold Edward Medivetsky, B.S., University of Vermont, 1929; M.D., 1932.
Robert Emmett O'Brien, B.S., St. Michael's, 1942; M.D., University of Vermont, 1945.

**Instructors**
Stanley Livingston Burns, Jr., A.B., University of Vermont, 1931; M.D., 1933.
Murdo Glenn MacDonald, B.S., University of Vermont, 1947; M.D., 1951.

**Instructors (Clinical)**
Winston Milo Eddy, B.S., University of Vermont, 1943; M.D., 1945.
John Richard Fitzgerald, B.S., St. Michael's, 1951; M.D., University of Vermont, 1953.
William Arthur Pratt, B.S., University of Vermont, 1941; M.D., 1943.
John Cushman Twitchell, B.S., University of Vermont, 1949; M.D., 1953.

**Clinical Associates**
Harry Livingston Colombo, B.S., University of Vermont, 1935; M.D., 1938.
John Patrick Corley, A.B., Holy Cross, 1937; M.D., University of Vermont, 1943.
Edward Esau Friedman, A.B., Norwich, 1942; M.D., University of Vermont, 1950.
William Henry Heininger, M.D., University of Vermont, 1939.
John Louis Saia, B.S., University of Vermont, 1931; M.D., 1934.
Louis Joseph Wainer, B.A., McGill, 1929; M.D., 1933.
Maurice James Walsh, B.S., University of Vermont, 1936; M.D., 1939.

**Research Associates**
Sakti P. Bagchi, B.S., University of Calcutta, 1951; M.S., 1954; Ph.D., 1959.

**Assistants**
Mrs. Leona Amelia.
Mrs. Reba Beecher.
Evelyn Barrill, B.S.
Mrs. Eleanor Kendall, B.S.
Euphonia Meymarian, M.S.
Renzo Nylander, B.S.
Maureen O'Connell, B.S.

This department accepts the general opinion of medical educators, that a medical department constitutes the central core of teaching in the clinical years. From this core the specialties grow. With this concept in mind, the Department has been built on a broad base. All members are highly trained in the field of internal medicine, and nearly all have additional training in some specific aspect of this field. Many of the members maintain close contact with one of the basic science departments. This arrangement tends to bridge the gap between preclinical and clinical instruction.

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

The staff of the Department numbers 36. Staff members are carefully chosen and are certified by their respective Boards. The junior men are either members of, or eligible for their Boards. Students begin their contact with members of the Department in their second year. They are given an introductory course in clinical medicine and instruction in the art of history-taking and physical diag-
nosis. Many hours are spent with the patients under the close supervision of members of the Department.

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

The fourth-year students are taught through the medium of outpatient clinics, sanatoria, and the patients' homes.

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

DIVISION OF DERMATOLOGY

Professor and Chairman of Division

John Fidlar Daly, B.S., Knox College, 1926; M.D., University of Pennsylvania, 1930.

Case demonstrations of cutaneous disease, seminars, informal discussions and demonstrations are employed to present an outline of the field of dermatology to third-year students. Such instruction is carried out in groups of about 15 during the trimester devoted to Medicine.

Fourth-year students receive practical instruction with patients in the outpatient clinics of the hospitals. They may arrange for elective assignment for more complete training.

Consultation service to the hospitals is provided in dermatology and syphilology and limited instruction of nursing students is conducted.

DIVISION OF EXPERIMENTAL MEDICINE

Associate Professor and Chairman of Division

Thomas Bartholomew Tomasi, Jr. (Arthritis and Rheumatism Foundation Senior Investigator), A.B., Dartmouth, 1950; M.D., University of Vermont, 1954.

Professors

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


Professor Emeritus

Wilhelm Raab, M.D., University of Vienna, 1920; M.D., German University of Prague, 1926.

Assistant Professor

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 and biochemical background, and to contribute to the progress of clinical medicine by means of experimental techniques. The research activities of the Division concentrate on cardiovascular, neuro-vegetative, endocrine, metabolic, biochemical and immunological problems.

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

The staff is comprised of five interns, two of whom are certified by the American Board of Internal Medicine, and an electrocardiologist. Two staff members are authors of books related to their specialties. All members are involved in active research and participate in the teaching programs of the University at both medical and graduate student levels.

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

The laboratories for biochemical and immunological research are located in the Medical Alumni Building.

Teaching of undergraduate students includes lectures, ward rounds, demonstration of electrocardiograms and phonocardiograms. In addition, the staff participates in clinical, clinicopathological and correlation conferences, and arranges special courses and international symposia for graduates in cardiology, endocrinology and immunology.

DIVISION OF NEUROLOGY

Professor and Chairman of Division
George Adam Schumacher (National Institutes of Health Research Career Award), B.S., Pennsylvania State College, 1932; M.D., Cornell, 1936.

Associate Professor (Clinical)
Herbert Lloyd Martin, B.S., Boston University, 1947; M.D., 1950.

Instructors (Clinical)
Marion Claire McKee, B.A., Hunter, 1949; M.D., Temple, 1953.
The primary function of the Division is to provide instruction to undergraduate medical students in the field of diseases of the nervous system. The Division of Neurology also carries on a graduate residency training program in neurology at the two local teaching hospitals. Clinical research activities are constantly in progress. Members of the staff prepare for publication in various textbooks and journals, critical reviews of areas of nervous system disease and of current scientific advances in neurology.

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

During the third year, lectures provide broad orientation in the field of nervous system disease. No attempt is made to present comprehensively a series of individual disease syndromes. During the clinical clerkship on Medicine, the student is assigned in rotation patients admitted to the Neurological Service. Patients with nervous system disease are presented by the students at the regular weekly neurological conference held for clinical clerks on the floors of either the Mary Fletcher or DeGoesbriand Memorial Hospitals.

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

Interns obtain training by rotation through the neurological services at the Mary Fletcher and the DeGoesbriand Memorial Hospitals. Rounds and conferences take place, at which selected diseases of the nervous system are presented. The Resident staff in Neurology is assigned to both hospitals and assists in the instruction of third- and fourth-year students.

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

The staff participates in the Cerebral Palsy Clinics sponsored by the Vermont Association for the Crippled. Members of the staff function on the medical advisory boards and committees of regional and national voluntary medical societies and serve as neurological consultants to various hospitals and agencies. Lectures are given to three schools of nursing.
THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Professor and Chairman of Department
John Van Sicklen Maeck, B.S., University of Vermont, 1936; M.D., 1939.

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

Associate Professor

Associate Professors (Clinical)
Oliver Rolfe Eastman, B.S., University of Vermont, 1935; M.D., 1938.
William Joseph Slavin, Jr., B.S., University of Vermont, 1933; M.D., 1935.

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

Assistant Professors (Clinical)
John Douglas Boardman, A.B., Holy Cross, 1945; M.D., Univ. of Vermont, 1948.
Benjamin Franklin Clark, B.S., University of Vermont, 1930; M.D., 1933.
Herbert Ashley Durfee, Jr., B.S., Yale, 1944; M.D., University of Vermont, 1948.

Instructor

Instructors (Clinical)
Martin John Cannon, B.S., University of Vermont, 1943; M.D., 1945.
Henry Lewis Pratt, B.S., University of Vermont, 1938; M.D., 1941.
David Latham Taber, M.D., Long Island, 1946.
Wilfrid Louis Thabault, B.S., St. Michael's, 1943; M.D., Univ. of Vermont, 1947.

Assistant
Madelaine Carlton, B.S.
George Ward, M.S.
The course is designed to create an inquisitive interest and fundamental knowledge of the functions and abnormal pathologic processes of the female generative tract. The science of human reproduction is approached through the anatomy, embryology, physiology, endocrinology, and pathology of the reproductive organs, and the clinical application of this knowledge.

The philosophy is not to create obstetrician-gynecologists, but to develop an attitude and concept upon which may be built the researcher, the teacher and the clinician in his post-graduate training years.

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

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

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

The residency program in obstetrics and gynecology consists of four years of intensive training. Three years are devoted to clinical obstetrics and gynecology, as required by the American Board of Obstetrics and Gynecology. An additional six months are spent in pathology, as assistant resident, and six-months time in the fields of general surgery, urology and internal medicine with emphasis on metabolic diseases and endocrinology. Residents who qualify may obtain additional obstetrical training by arrangement with such institutions as the Boston Lying-In Hospital, the Boston City Hospital, and the State University of New York Down-state Medical Center. Positions as Trainees or Fellows are usually available in the fourth or fifth years.
THE DEPARTMENT OF OPHTHALMOLOGY
AND OTOLARYNGOLOGY

Shipman Professor and
Chairman of Department

John Charles Cunningham (Ophthal-
mology), A.B., University of Vermont,
1931; M.D., 1935.

Assistant Professor

Marshall Coleman Twitchell, Jr. (Oph-
thalmology), A.B., Williams, 1934; M.D.,
Harvard, 1938.

Clinical Associate

Edward Suter Irwin (Ophthalmology),
B.S., University of Vermont, 1940; M.S.,
1942; O.D., Pennsylvania State College of
Optometry, 1950; M.D., University of Ver-
mont, 1955.
DIVISION OF OTOLARYNGOLOGY

Associate Professor and Chairman of Division

Rufus Clegg Morrow, Jr., B.S., Davidson College, 1934; M.D., Duke, 1939.

Assistant Professor

Vilma T. Falck (Audiology), (National Institutes of Health Research Career Development Award), B.S., University of Pittsburgh, 1948; M.S., Pennsylvania State, 1950; Ph.D., 1953.

Assistant Professors (Clinical)

John Wilbur Heisse, Jr., A.B., Johns Hopkins, 1949; M.D., University of Maryland, 1953.

Elmer McCready Reed, B.S., Allegheny, 1932; M.D., Jefferson Medical College, 1936.

Assistant Professor Emeritus

Peter Paul Lawlor, M.D., University of Vermont, 1920.

Instructor (Clinical)

Richard Herron Goldsborough, B.S., University of Pittsburgh, 1950; M.D., 1951.

Consultant

Frank James Falck (Audiology), A.B., University of Kentucky, 1950; M.A., 1951; Ph.D., Pennsylvania State University, 1955.

Teaching of all 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. Regular monthly clinics in audiology are conducted in various cities of Vermont. Clinics are maintained at the Mary Fletcher and DeGoesbriand Memorial Hospitals. Consultation duties are performed at hospitals in neighboring communities of Vermont and New York.

Ophthalmology and otolaryngology are taught in the second, third and fourth years by lectures, rounds, patient conferences and clinics. A residency in Otolaryngology is maintained in which is offered a program of clinical training in all phases of this specialty, including broncho-esophagology, and plastic and tumor surgery of this region.
THE DEPARTMENT OF PATHOLOGY AND ONCOLOGY

**Professor and Chairman of Department**

Robert William Coon, B.S., North Dakota State College, 1942; M.D., University of Rochester, 1944.

**Associate Professors**


Ernest Stark, B.S., Columbia, 1933; M.D., Long Island, 1939.

**Assistant Professors**

Roy Vedder Butts, B.S., University of Vermont, 1937; M.D., 1940.

Jackson Joshua Walter Clemmons (Helen Hay Whitney Fellow), B.S., University of Wisconsin, 1947; M.S., 1949; Ph.D., 1955; M.D., Western Reserve, 1959.

Rex Dee Couch, A.B., Indiana University, 1952; M.D., 1956.

Margaret Heckman, B.S., Ursinus College, 1947; M.S., Columbia, 1949; M.D., 1956.

Bert Karl Kusserow, B.S., Union, 1948; M.D., Yale, 1953.


**Instructor**

Mary Breen (Medical Technology), B.S., University of Vermont, 1947.
The interests and responsibilities of the Pathology staff include teaching, research, and the practice of both anatomical and clinical pathology in the affiliated teaching hospitals. The diversity of interest and variety of responsibility within the staff, as represented by these activities, create an ideal atmosphere for the introduction of students and residents to the study of disease in all of its manifestations.

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

Instruction in clinical pathology is closely correlated with work in general and special pathology. The clinical pathology course is designed to acquaint the student with laboratory medicine, including the tests available in the clinical laboratory, the value and limitations of these tests, and the interpretation of results. Emphasis is placed on the clinical application of laboratory data and the integration of the data obtained with other clinical findings. Hematology and parasitology are introduced in this phase of the course, as are techniques for examination of urine, gastric contents, cerebro-spinal fluid, and other body fluids.

The teaching activities of the Department continue into the clinical years of the undergraduate curriculum as well as into the residency years. Students assigned to the various clinical services of the teaching hospitals meet at regular intervals with members of the Pathology Department for specialized instruction in conjunction with their clinical assignments. Clinico-pathological conferences are conducted twice monthly at the teaching hospitals.

Complete residency training in anatomic and clinical pathology approved by the American Board of Pathology is offered by the Department in conjunction with its affiliated teaching hospitals. Residents are encouraged to engage in research and to participate actively in the teaching programs.
Graduate Courses

Prerequisite—Permission of the Department Chairman.

301-302 General and Special Pathology. This is similar to the course for second-year medical students except it does not include the course work in clinical pathology. It may be taken by graduate students who have proper prerequisite training. Lectures and conferences: total for year, 110 hours. Laboratory: total for year, 195 hours. Thirteen credit hours total.

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

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

391, 392, 393, 394 Thesis Research. Investigation of a research topic under the direction of a staff member, culminating in an acceptable Master’s thesis. Prerequisite: Courses 301 and 302. Credit as arranged.
THE DEPARTMENT OF PEDIATRICS

**Professor and Chairman of Department**


**Professor (Clinical)**

Robert James Slater, M.D., University of Toronto, 1946; B.Sc., 1948.

**Associate Professor**

Jerold Francis Lucey (Markle Scholar), A.B., Dartmouth, 1948; M.D., New York University, 1952.

**Associate Professors (Clinical)**

Paul Dennison Clark, M.D., University of Vermont, 1926.

Ralph Daniel Sussman, B.S., University of Vermont, 1935; M.D., 1938.

**Assistant Professor (Clinical)**


**Instructors (Clinical)**

Elizabeth Ann Clark, B.S., University of Vermont, 1933; M.D., 1956.


Marion Claire McKee, B.A., Hunter, 1949; M.D., Temple, 1953.


Dorothy Jackson Morrow, B.S., Boston University, 1936; M.D., Tufts, 1940.

Audrey Jeanne Naylor, B.A., University of California (Berkeley), 1953; M.D., University of California (Los Angeles), 1956.


**Assistants**

Mrs. Jean Flewitt, B.S.

Mrs. Laurette McKenney, M.S.
The staff consists of two full-time and eleven part-time clinical teachers, and three resident physicians.

Orientation lectures are given during the latter part of the second year and a series of clinical lectures during the third year. A combined clinical clerkship is given during the third year in conjunction with the Department of Obstetrics and Gynecology. During this clerkship each student has three two-hour obstetrics seminars each week and attends daily teaching rounds on the pediatric floors of the DeGoebriand Memorial and Mary Fletcher Hospitals. Each student spends one month as a clinical clerk on the pediatric service of each hospital and a third month on the nursery service of one hospital. During the latter month, he also works up three obstetric or gynecologic patients a week. The teaching schedule is arranged so that all students are exposed for one month to each of the two full-time teachers and for one month to one of the part-time teachers who is in active pediatric practice. The student also works one afternoon a week throughout the clerkship in a supervised child-health clinic, and another afternoon every other week in a pediatric outpatient clinic.

Particular emphasis is put on the psychological aspects of pediatrics and on doctor-child-parent relationships. Additional pediatric experience is gained through participation in the Family Care Program of the Department of Epidemiology and Community Medicine, and through pediatric electives available in the fourth year. The Department takes the responsibility for pediatric training of rotating interns and pediatric residents in the Burlington hospitals.
THE DEPARTMENT OF PHARMACOLOGY

Professor and Chairman of Department

*Durwood James Smith, A.B., Syracuse, 1938; M.D., 1941.

Professor

Samuel Booth Barker (National Institutes of Health Research Career Award), B.S., University of Vermont, 1932; Ph.D., Cornell, 1936.

Professor Emeritus

David Marvin, M.D., University of Vermont, 1900.

Associate Professors


Assistant Professor of Clinical Pharmacology

Murdo Glenn MacDonald, B.S., University of Vermont, 1947; M.D., 1951.

Instructor


Director of Animal Services and Research Associate

Henry Meade Doremus, A.B., Dartmouth, 1937; M.S., Cornell, 1938; D.V.M., 1946.

Assistants

Robert Busier.

Eugene Ceglowski, B.S.

The pharmacology course for undergraduate medical students is taught in correlation with the course sequence of the Departments of Pathology and Medical Microbiology. 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.

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

Graduate Courses

Prerequisite—Permission of the Department Chairman.

301-302 Pharmacology. This is the course given in the medical curriculum, with such modifications for the individual graduate student as are required. Lectures, conferences and demonstrations, 84 hours; laboratory, 80 hours. Eight credit hours.

311, 312 Pharmacological Techniques. Demonstration of and laboratory exercises in selected procedures of pharmacological research with special emphasis upon the cardiovascular system and neuropharmacology. Laboratory, 4 hours per week, 15 or 30 weeks. Offered either first or second semester and in summer. Prerequisites: Physiology and Biophysics 201-202 or Pharmacology 301-302. Two credit hours per semester.

320 Drug Metabolism. A study of how absorption, distribution, excretion and metabolism alter drug action. Methods of studying drug metabolism at the sub-cellular to the whole-organism level are discussed and evaluated, which include lectures on recent methods for analysis, such as counter current distribution, paper chromatography and electrophoresis. Lectures and seminars, 2 x 1 hour per week. Prerequisites: Pharmacology 301-302. Two credit hours.

362 Drug Evaluation. The techniques by which a new chemical agent is evaluated between its synthesis and its release to the medical profession are critically discussed. Lectures and seminars, 2 x 1 hour per week; laboratory, 1 x 4 hours per week for 6 weeks. Offered second semester on alternate years only. Prerequisites: Pharmacology 301-302. Two credit hours.

381, 382, 383, 384 Seminar. General topics are presented by students, staff members and visiting scientists. Organized surveys of selected fields may be presented upon request. One x 1 hour per week. Offered both first and second semesters. Open to all properly qualified graduate students. One credit hour per semester.

391 through 399 Master's Thesis Research. Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Master's thesis. Credit as arranged.

491 through 499 Doctoral Thesis Research. Original research under the direction of an assigned staff member, culminating in an acceptable doctoral dissertation. Credit as arranged.
THE DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS

Professor and Chairman of Department
Ferdinand Jacob Morris Sichel, B.Sc., McGill, 1928; Sc.M., New York University, 1930; Ph.D., 1934.

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

Associate Professors
Alfred Hayes Chambers, A.B., Swarthmore, 1936; Ph.D., University of Pennsylvania, 1942.
Walter Leroy Wilson, B.S., State Teachers College, West Chester, Pa., 1940; Ph.D., University of Pennsylvania, 1949.

Instructor
George Richard Howe, B.S., University of Vermont, 1937; M.S., Penn. State University, 1959; Ph.D., University of Massachusetts, 1961.

Associate
Oscar Sylvander Peterson, Jr., M.D., University of Vermont, 1936.

Consultant
George Robert Stibitz (Biophysics), Ph.B., Denison, 1926; M.S., Union College, 1927; Ph.D., Cornell, 1930.

Assistant
Allison Meader, B.S.

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 include projects on the physiology and biophysics of cardiac and voluntary muscle
contraction, intracellular clotting mechanisms, auditory mechanisms, and endocrine relations in reproductive physiology.

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

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

Graduate Courses

Prerequisite—Permission of the Department Chairman.

301-302 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. Six credit hours, each semester.

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

311 through 314 Special Problems in Biophysics. These courses, open to qualified students by arrangement with the staff, will include lectures, seminars and directed readings on current problems in biophysics and medical physics. Hours and credit as arranged.

321-322 Cellular Physiology and Biophysics. Fundamental physical and physicochemical properties of living cells. The reading of original scientific papers in the area covered will be stressed. Hours and credit as arranged.

381 through 389, 481 through 489 Seminar. These courses are designed to review recent developments and literature. Topics are presented by students, staff, and by visiting scientists. Hours and credit as arranged.

391 through 399 Thesis Research. Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Master's thesis. Credit as arranged.

491 through 499 Thesis Research. Investigation of a research topic under the direction of an assigned staff member, culminating in an acceptable Doctor's thesis. Credit as arranged.
THE DEPARTMENT OF PSYCHIATRY

Professor and
Chairman of Department
Thomas Johnson Boag, M.B., Ch.B., University of Liverpool, 1944; Diploma Psychiatry, 1953.

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

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

Assistant Professors
Gerald Francis McGinniss, A.B., St. Anselm's, 1946; M.D., University of Vermont, 1950.
William A. Woodruff, B.A., King's College (London), 1938; M.B., B.S., St. Bartholomew's, 1932; Diploma Psychiatry, University of Toronto, 1958.

Assistant Professors (Clinical)
George Wilson Brooks, B.S., University of New Hampshire, 1941; M.D., University of Vermont, 1944.
Julius George Cohen, B.S., University of Vermont, 1942; M.D., 1943.
Lelon Ashley Weaver, Jr. (Psychology), A.B., University of Vermont, 1943; M.A., Columbia, 1947; Ph.D., Purdue, 1957.

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

Instructors
Christopher Patrick McAree, M.B., B.Ch., B.A.O., Queens (Ireland), 1956; Diploma Psychological Medicine, Royal College of Physicians and Surgeons (London), 1961.
Instructors (Clinical)


Maurice Raymond Caron, A.B., St. Michael's, 1930; M.D., University of Vermont, 1936.

Donald Merritt Eldred (Psychology), A.B., Oberlin, 1931; A.M., Columbia, 1942.

J. Louis Philippe Forest, A.B., University of Montreal, 1920; M.D., 1925.

Hans Rosensteck Huessy, B.A., Dartmouth, 1942; M.D., Yale, 1945; M.S., University of Colorado, 1951.


Clinical Associate

John Butler Tompkins, M.D., Tufts, 1935.

Assistant

Mrs. Olive Sherbert.

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

The staff is composed of eighteen members. Several of the staff practice psychiatry privately and supervise the psychiatric outpatient clinics. Other members specialize in psychiatric problems of children, psychological techniques, psychiatric social service and the care of patients in psychiatric hospitals.

The undergraduate 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. Particular emphasis is placed on giving the student a clear understanding of terminology, systems of classification, and the basic concepts of dynamic psychiatry.

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 or attending clinics are considered. Psychoses, neuroses and the problems of childhood are all under discussion at this time. Each student follows a patient in psychotherapy for three months under detailed supervision.

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

A three-year residency program is carried on by the Department in conjunction with the affiliated hospitals.
THE DEPARTMENT OF RADIOLOGY

Professor and Chairman of Department

Arthur Bradley Soule, Jr., A.B., University of Vermont, 1925; M.D., 1928.

Associate Professor

Clinton Dales Janney (Radiologic Physics), B.S., University of Illinois, 1941; Ph.D., University of California, 1945.

Assistant Professors (Clinical)

Benjamin Albert Ring (Neuroradiology and Radiologic Anatomy), B.S., Bates, 1942; M.D., Tufts, 1946.

John Peter Tampas (James Picker Foundation Scholar in Radiological Research), B.S., University of Vermont, 1951; M.D., 1954.

Assistant Professor (Clinical)

Howard Theodore Guare, M.D., University of Vermont, 1934.

Instructors (Clinical)

William Herbert Johnston, B.S., University of Vermont, 1940; M.D., 1943.

Robert Newton Saxby, B.S., University of Vermont, 1937; M.D., 1941.
Instructor
Ralph Bannister (X-ray Technique), R.T., American Society of X-ray Technicians, 1950.

Research Associates
James Arthur Danigelis, B.S., University of Vermont, 1956; M.D., 1959.
Howard Randall Deming, B.A., Dartmouth, 1955; M.D., University of Vermont, 1959.
Larry Wayne Seibert, B.S., Wayne State, 1953; M.D., 1956.
Assistant
Daniel Cunningham.

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

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

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

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

Professor and
Chairman of Department
Albert George Mackay, B.S., University of Vermont, 1929; M.D., 1932.

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

Associate Professors (Clinical)
Arthur Gladstone, B.S., University of Vermont, 1928; M.D., 1931.
Harold Gordon Page, B.S., University of Vermont, 1940; M.D., 1945.
Keith Frank Truax, B.S., University of Vermont, 1928; M.D., 1931.

Assistant Professor
William Martin Stahl, Jr., A.B., Dartmouth, 1943; M.D., Harvard, 1946.

Assistant Professors (Clinical)
Bernard Benjamin Barney (Plastic), B.S., University of Vermont, 1941; M.D., 1943.
Carleton Raymond Haines (Oncology), B.S., University of Vermont, 1941; M.D., 1943.
Jay Edgar Keller, M.D., University of Vermont, 1940.
James Bishop McGill, B.S., University of Vermont, 1944; M.D., 1946.
William Ireland Shea, A.B., Holy Cross, 1936; M.D., University of Vermont, 1940.

Instructors (Clinical)
Francis Arnold Caccavo, A.B., Syracuse, 1940; M.D., University of Vermont, 1943.
Robert Nolan Cain, B.S., University of Vermont, 1943; M.D., 1945.
Albert James Crandall, B.S., University of Vermont, 1930; M.D., 1933.
Henri Louis Pache, B.S., University of Vermont, 1941; M.D., 1944.
Louis George Thabault, M.D., University of Vermont, 1930.
The Department offers training in disciplines leading to a knowledge of the science of surgery.

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

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

The experience of the senior on surgery will be oriented to inpatient work under the direct supervision of faculty and house staff of both local hospitals, giving the fourth-year students increased responsibility. An elective in surgery is offered to those students in the upper third of the class who have demonstrated aptitude for general surgery. This elective may be taken in clinical or research surgery.

The Department concerns itself also with training personnel in the approved intern appointments of both local hospitals and their residency program, which latter is a four-year approved program and is conducted jointly by the College of Medicine and the hospitals. The completion of this residency program leads to full qualification for admission to 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 and Chairman of Division
John Abajian, Jr., M.D., New York Medical College, 1937.

Assistant Professors (Clinical)
Gino Aldo Dente, M.D., University of Vermont, 1941.
Ernest Lee Mills, B.S., University of Vermont, 1938; M.D., 1942.

Instructors (Clinical)
John Edmund Mazuzan, Jr., B.S., Boston College, 1951; M.D., University of Vermont, 1954.

Undergraduate teaching consists of ten lectures given three times yearly to the third-year class of medical students. Periodically lectures
are given in both the second and third years by invitation in other department schedules. The fourth-year medical students are invited to attend the Anesthesiology Conferences which are held weekly. A one-month elective program for senior students is also available. The resident training program consists of the appointment of six residents for a period of two years.

DIVISION OF NEUROSURGERY

Professor and
Chairman of Division

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

Associate Professor

Lester Julian Wallman, A.B., Yale, 1934; M.D., 1938.

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

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

They serve as clinical clerks and gain experience in the presentation of patients in conference, the preparation of patients for presentation and the preparation of a bibliography. They are welcomed to the daily neurosurgical rounds and the weekly staff conference, as well as to the Monday noon teaching hour for residents.

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

A four-year residency program is offered.

Neurosurgical services are maintained in both local teaching hospitals.

DIVISION OF ORTHOPEDIC SURGERY

Associate Professor and
Chairman of Division


Assistant Professors (Clinical)

Raymond Frank Kuhlmann, B.A., University of Wisconsin, 1936; M.D., Washington University, 1939.

Charles Brush Rust, M.D., University of Vermont, 1939.

Instructors (Clinical)

Philip Hovey Davis, B.S., University of Vermont, 1930; M.D., 1933.

James Edwin Simpson, B.S., University of Vermont, 1941; M.D., 1943.

Consultant Emeritus

David Marsh Bosworth, A.B., University of Vermont, 1918; M.D., 1921.
Undergraduate teaching is conducted in the second, third and fourth year. In the second year, the emphasis is on the orthopedic aspects of the physical examination. In the third year during their clinical clerkship in surgery the students actively participate in the work-up and management of orthopedic cases. Ward rounds and conferences on selected orthopedic subjects are conducted during this period.

In the fourth year the emphasis is on out-patient services, where the students work in the several orthopedic clinics, both general and for children. An elective month of orthopedic surgery is also available during the fourth year for a maximum of two students each month.

Intern and resident teaching is carried out through rounds and personal contact regarding specific cases. Approved residencies in orthopedic surgery are not yet available.

DIVISION OF THORACIC AND CARDIAC SURGERY

Associate Professor (Clinical) and
Chairman of Division

Donald Barker Miller, A.B., Johns Hopkins, 1938; M.D., 1942.

This division concerns itself primarily with thoracic and cardiovascular surgical problems. An active teaching and research program is maintained in the College of Medicine in close correlation with both teaching hospitals. In addition to covering the surgery and surgical clinics in this field in the local teaching hospitals, regular visits are made to the Vermont (tuberculosis) Sanatorium in Pittsford, and to the Barre Chest Clinic in Barre.

The research program of this division has concerned itself primarily with various problems related to open-heart surgery over the past few years, but studies involving pulmonary emphysema, carcinoma of the lung, strictures of the esophagus, and the application of microsurgery to all of these fields had been in progress at the same time, and will continue to grow.

DIVISION OF UROLOGY

Associate Professor (Clinical) and
Chairman of Division

Platt Rugar Powell, B.S., University of Vermont, 1936; M.D., 1939.

Assistant Professor (Clinical)

William Thomas Fagan, Jr., B.S., University of Vermont, 1945; M.D., 1948.

Instructor (Clinical)

Louis William Esposito, B.S., University of Notre Dame, 1931; M.D., Johns Hopkins University, 1935.

Research Associates


Wesley Joseph Pelkey, A.B., Williams, 1953; M.D., University of Rochester, 1957.


Larry Wayne Seibert, B.S., Wayne State, 1953; M.D., 1956.
The teaching program is directed at the third and fourth years. Didactic lectures usually levelled at the third-year group, are largely supplemented by tutorial sessions with smaller groups, briefly reviewing and clarifying puzzling aspects of broad segments of material to be covered. Patient material is used to assist in this effort. Third- and fourth-year teaching is carried out almost entirely in the hospital where the students are particularly active on the wards and in the outpatient departments. They are occupied with patient study, weekly urological rounds, observation in cystoscopy and operating rooms.

A three-year approved urological residency program has been operational for a number of years with clinical and research material gathered from both teaching hospitals and the College of Medicine research unit. Cinefluorographic studies and urological microsurgery are among current research projects.

Interns are assigned to urology in both hospitals and participate in teaching and conferences.

MEDICAL LIBRARY

Medical Librarian

Medical Cataloguer
Alice Lois James, A.B., Macalester College, 1922; B.S. in L.S., University of Minnesota, 1929.

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

The collection, totalling 25,000 volumes, consists of textbooks, monographs and periodicals in the field of the medical sciences. Approximately 700 periodical subscriptions are received currently.

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

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

DIVISION OF PHOTOGRAPHY

Francis Charles Mallory, Director.
Wing Morrison Woon.

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.
INTERNSHIP APPOINTMENTS

Saul Adams, B.S., M.S.
Syracuse Medical Center, Syracuse, N. Y.

Ralph David Aserkoff, B.A.
Philadelphia General Hospital, Philadelphia 4, Pa.

Edward Michael Austin, B.A.
D. C. General Hospital, Washington, D. C.

Roger David Baker, B.A.
Methodist Hospital, Indianapolis 7, Ind.

Salomon Bensimhon, B.A.
Beth Israel Hospital, New York, N. Y.

Clarence Edward Bunker, B.S.
Palo Alto-Stanford Hospital Center, Palo Alto, Calif.

Spencer Worthington Burney, B.S.
Mount Auburn Hospital, Cambridge, Mass.

David Stuart Chase, B.A.
Syracuse Medical Center, Syracuse, N. Y.

Stuart Donald Cook, A.B., M.S.
Syracuse Medical Center, Syracuse, N. Y.

Daniel Harrison Day, A.B.
U. S. Naval Hospital, Charleston, S. C.

John Richard Dooley, A.B.
Graduate Hospital of University of Pennsylvania, Philadelphia, Pa.

Donald Thomas Evans, B.A.
U. S. Naval Hospital, Chelsea, Mass.

Samuel Edwin Fineberg, B.S.
Hospital of University of Pennsylvania, Philadelphia, Pa.

John Rudolph Fischer, B.A.
Harrisburg Hospital, Harrisburg, Pa.

Nathel John Fontana, B.A.
DeGoesbriand Memorial Hospital, Burlington

Donald McKenzie Ford, B.S.
Albany Medical Center Hospital, Albany, N. Y.

Michael Ignatius Grady, A.B.
Straight Specialties, Boston City Hospital, Boston, Mass.

Harvey Grant, B.S., B.A.
University of California Hospital, San Francisco, Calif.

Allan Howard Greenfield, B.A.
Beverly Hospital, Beverly, Mass.
Joseph John Guardino, B.S., M.ED.  
Manchester Memorial Hospital, Manchester, Conn.

Christos Arthur Hasiotis, A.B.  
III Surgical, Boston City Hospital, Boston, Mass.

Richard Donald Haskell, A.B.  
Tripler Army Hospital, Honolulu, Hawaii

Frederick Robert Hyland, B.S.  
Syracuse Medical Center, Syracuse, N. Y.

Warren Evan Johnson, A.B.  
Albany Medical Center Hospital, Albany, N. Y.

Joshua Moses Kaplan, A.B.  
St. Luke's Hospital, New York, N. Y.

Roger Lee Lerner, B.A.  
Syracuse Medical Center, Syracuse, N. Y.

Dean Sherwood Louis, B.S.  
Maine Medical Center, Portland, Me.

John Murdock MacAulay, B.A.  
University Hospitals, Madison, Wis.

Neil Francis Mara, B.S., M.S.  
DeGoesbriand Memorial Hospital, Burlington

Paul Arthur Marshall, B.S.  
Manchester Memorial Hospital, Manchester, Conn.

Donald Putnam Miller, A.B.  
St. Vincent Hospital, Worcester, Mass.

Robert George Mondou, A.B.  
DeGoesbriand Memorial Hospital, Burlington

Daniel Isaac Palant, B.A.  
Syracuse Medical Center, Syracuse, N. Y.

Sherwin Howard Ritter, B.A.  
Mary Fletcher Hospital, Burlington

Norman Burton Schwartz, A.B.  
Montefiore Hospital, New York, N. Y.

Ruth Andrea Seeler, B.A.  
Bronx Municipal Hospital Center, New York, N. Y.

Donald Walter Seymour, B.A.  
Mount Zion Hospital, San Francisco, Calif.

Lewis Mark Slater, B.A.  
Public Health Service Hospital, Staten Island, New York, N. Y.
PRIZES
JUNE, 1962

CARBEE PRIZE
For greatest proficiency in the subject of Obstetrics
Stuart Donald Cook, A.B., M.S.

WOODBURY PRIZE IN MEDICINE
For greatest proficiency in Clinical Work in senior year
Donald Thomas Evans, B.A.
John Murdock MacAulay, B.A.
To the sophomore having the highest standing for two years of Medical Work
Paul Michael Leiberman, B.A.

LAMB FOUNDATION PRIZES
To the students showing greatest comprehension and appreciation of the Doctor-Patient Relationship
First: Samuel Edwin Fineberg, B.S.
Second: Stuart Donald Cook, A.B., M.S.

HELAINE MESCH MEMORIAL AWARD
Neil Francis Mara, B.S., M.S.

ALPHA OMEGA ALPHA
National Honor Medical Society
Clarence Edward Bunker, B.S.
Stuart Donald Cook, A.B., M.S.
Richard Donald Haskell, A.B.
Frederick Robert Hyland, B.S.
John Murdock MacAulay, B.A.
Neil Francis Mara, B.S., M.S.
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Bart

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Sanford, Me.
Anthony Frederick Wasilkowski, A.B.  
Winooski
Roger Maitland Wilson, A.B.  
Jefferson, Me.
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