1934

University of Vermont, College of Medicine Bulletin

University of Vermont

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CALENDAR
1934-1935

Examinations for Advancement in Course and for Advanced Standing,
September 15, 17, 18

Opening Address...............................Wednesday, September 19, 10.00 a.m.
Enrollment and Organization of Classes..............Thursday, September 20
Regular Exercises begin..........................Friday, September 21, 7.30 a.m.
Registration ends.................................Saturday, September 29
Armistice Day....................................Monday, November 12
Thanksgiving Recess,
Thursday, November 29, 7.30 a.m. to Monday, December 3, 7.30 a.m.
Christmas Recess.................................Saturday, December 22, 1934, 7.30 a.m.

                               to Thursday, January 3, 1935, 7.30 a.m.
Class Work resumed.........................Thursday, January 3, 7.30 a.m.
Mid-year Examinations..............Thursday, January 24 to Saturday, February 2
Enrollment for Second Semester.........................Saturday, February 2
Second Semester begins........................Monday, February 4, 7.30 a.m.
Easter Recess..Saturday, March 30, 7.30 a.m. to Tuesday, April 9, 7.30 a.m.
Founder's Day..................................Wednesday, May 1
Memorial Day....................................Thursday, May 30
Final Examinations............................Monday, June 10 to Thursday, June 20
Events of Commencement Week..............Friday, June 21 to Monday, June 24
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Laboratory Assistant

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Dispensary Nurse

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260 Main Street
Secretary to the Dean
ADMINISTRATION

The University of Vermont consists of four colleges, viz.: The College of Arts and Sciences, The College of Engineering, The College of Agriculture and The College of Medicine. The College of Medicine is a member of the Association of American Medical Colleges and is rated as a Class A institution by the Council on Medical Education and Hospitals of the American Medical Association. The excellent record of the graduates of this college and the high standing of the institution is, in large measure, the result of the intensive instruction given in small sections in lecture, laboratory and clinic. The moderate tuition fee makes it possible for a student of limited means to prepare for the medical profession.

Students who have not received the academic training necessary for admission to the College of Medicine are referred to the Catalogue of the University which gives a full description of the curricula in the College of Arts and Sciences serving this purpose.

Inquiries as to admission to the University, requests for catalogues and bulletins, and information concerning the alumni should be addressed to the Registrar of the University.

Requests for information and correspondence of a general character concerning the work of the institution as a whole, or its relation to its constituency, should be addressed to the President.

All telephones are listed under "The University of Vermont." Strangers unfamiliar with the institution and desiring information concerning the University may secure the same during office hours by calling either telephone number 899 or 140.

HISTORY

The College of Medicine of the University of Vermont is one of the oldest institutions of its kind in the United States. A lecturer on Chirurgery and Anatomy was appointed by the Trustees of the University Corporation on August 16, 1804. The first full and regular course of lectures, however, was not given until the fall of 1822. In 1829 a Medical College building was erected at the south end of the campus. In 1836 the College was abandoned because of the death of some of its leading spirits and for lack of students. There had been graduated up to that time one hundred and sixteen men.
The reorganization and successful re-establishment of this school were due chiefly to the efforts of Dr. S. W. Thayer, then a practitioner at Northfield. His efforts date back to 1840 and finally were successful in 1853. Dr. Levi W. Bliss of Bradford was also active in securing the reopening of the College. The prosperity of the newly organized department in 1854 soon became manifest, and a material enlargement of the old Medical College building, at the head of Main Street, was demanded. A sum was raised and the necessary improvements made. In 1870 the citizens of Burlington contributed an additional sum of two thousand five hundred dollars to enlarge the building further by the addition of a wing and to increase the seating capacity of the two lecture rooms. In 1884 the late John P. Howard generously gave a commodious building at the head of Pearl Street which was occupied first in 1885.

Until 1899 the relation of the College to the University was chiefly nominal. It was then reorganized and made a coordinate department of the University under the control of the Board of Trustees and its facilities both for teaching and study were increased materially. New rooms and improved apparatus were added and additional instructors secured. In 1903 the course was lengthened to seven months and in 1907 to seven and one-half months, giving thirty weeks of actual 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 was dedicated in June, 1905.

In 1911 the faculty of the College of Medicine was reorganized and the department made an integral part of the University system. With the opening of the college year of 1912 the entrance requirements were raised to one year of collegiate work and the college year was made equal in length to that of the academic colleges. Beginning in September, 1917, a regulation went into force, providing that two full years of academic college work should be required for admission. So far as can be foreseen the requirements will not be raised above this standard. In 1920 women were admitted to the College of Medicine. In 1928 the Preceptor System of teaching was introduced for the Senior class.
THE COLLEGE OF MEDICINE BUILDING

The College of Medicine building, located at the north end of the College Green, is a capacious and substantial structure, one hundred seventy feet long, seventy-five feet wide and three stories high. It is built of red brick with gray terra-cotta trimmings and is fireproof.

This modern building is well equipped for teaching all branches of medical science, and includes up-to-date facilities for laboratory work. The Medical Library, a division of the University Library, and the Pathological and Anatomical Museums and administrative offices of the University are in this building.

CLINICAL FACILITIES

The clinical facilities of the College have been greatly extended during the year. The institutions which are now available to the college for teaching purposes include the Mary Fletcher Hospital, the Laboratory of the State Board of Health, the College Dispensary, DeGoesbriand Hospital, the Fanny Allen Hospital, the Vermont State Home for Destitute Children, and the Elizabeth Lund Home—all located in Burlington; the Vermont State Hospital for the Insane, at Waterbury; the State Industrial School, at Vergennes; the Vermont Sanatorium and Caverly Preventorium, at Pittsford; the State School at Brandon; the Rutland Hospital; the Gifford Memorial Hospital at Randolph; and the Porter Hospital at Middlebury.

The heads, or other officers, of several of the above-named institutions are members of the Faculty of the College of Medicine, and are, therefore, in a position more intelligently and effectively to correlate the clinical work in their respective institutions with the didactic work of the college than would otherwise be possible.

Each student in the Senior class now receives, in addition to the instruction given in the intramural group of institutions, two weeks of intensive instruction in each of five institutions of the extramural group, and four weeks each with a Preceptor in general practice in the rural towns of Vermont.

DISPENSARIES

Two dispensaries are maintained by the College; one at the Mary Fletcher Hospital, and one at 110 Pearl Street. By arrangement between the Department of Charities of the city and the College, the sick poor both ambulatory and "bed" cases are committed to the care of the authorities of the College. A director with a competent staff is in charge of both interne and externe
service. Senior students are assigned definite duties in rotation to both interne and outside service, under the personal supervision of a competent officer.

MATERNITY SERVICE

The College maintains a maternity ward at the Mary Fletcher Hospital, to which students are assigned in rotation.

The Elizabeth Lund Home, as well as the ward at the above-named hospital, is under the immediate direction of the Professor of Obstetrics of the College, insuring the closest possible contact and correlation of didactic and clinical instruction.

PEDIATRICS

The wards of the three local hospitals, the Vermont State Home for Destitute Children, and the Elizabeth Lund Home, together, furnish a total of four hundred children; the Industrial School, about four hundred; the Preventorium, forty; and the Brandon State School four hundred. Each institution is under the personal direction of a member of the teaching staff.

VERMONT STATE HOSPITAL

This institution with eight hundred and fifty beds is of sufficient capacity to make it possible for the teacher to carry out what is regarded by many as an ideal method of teaching a clinical subject; that is, by arrangement of subject matter by the teacher in such a manner as to give it the order and emphasis it properly deserves, and finding in the hospital at the moment cases illustrative of that subject. Students in pairs are given two weeks of intensive instruction, as resident students, by the chief of the staff, who is also Professor of Psychiatry in the College.

THE VERMONT SANATORIUM

The Vermont Sanatorium for incipient and early tuberculosis and the Caverly Preventorium for undernourished children, both located at Pittsford, each with about forty beds, are under the immediate supervision of an officer of the faculty of the College.

In these institutions in addition to the didactic and clinical instruction that the student receives at the various general hospitals and dispensaries, he gets two weeks' intensive instruction in tuberculosis, free from the disturbing influences of the larger general institutions, and from the larger groups of students attending them. The fullest advantage possible is taken of the opportunity for individual or personal teaching, by a teacher of special training in his subject.
INDUSTRIAL SCHOOL

This State institution houses about four hundred delinquent boys and girls. It is in the charge of one specially trained in the care and treatment of such cases, and affords an excellent opportunity for the study of normal or abnormal psychology of our potentially criminal class. Students of the Senior class are assigned, in rotation, a tour of duty of two weeks at this institution.

BRANDON STATE SCHOOL

This institution with a population of about four hundred feeble-minded children is in charge of the Professor of Neurology of the faculty of the College. Each student in his Senior year has a residence of two weeks in this institution with ample opportunity for observing and studying the cases under supervision. A definite systematized course is laid down by the teacher, giving to each subject the time and emphasis its importance merits, with an abundance of material at hand to illustrate it.

DEPARTMENT OF CLINICAL TEACHING

The department of clinical teaching is under the direct supervision of the Professors of Clinical Medicine and Clinical Surgery. It is the purpose of the clinical teaching to incorporate, so far as possible, the same general principles of systematic teaching as are used in didactic instruction. The instruction is on the laboratory basis. Small groups of students have definite assignments in rotation at stated hours, and are always under the supervision of a clinical instructor.

The work includes daily service in the wards of the hospitals and at the dispensaries, and other institutions, attendance at the daily clinics and daily attendance in the general operating rooms of the hospitals. Students are also assigned to the pathological laboratory of the hospital, where each morning the regular pathological examinations for the hospital service are made, under the supervision of the pathologist. In the hospital wards and the dispensary members of the Senior and Junior classes under the direction of an instructor examine patients, write the history of cases, make all laboratory examinations indicated, and suggest treatment.

A LARGER TEACHING STAFF

The Departments of Anatomy, Physiology, Physiological Chemistry, Pharmacology and Pathology have been strengthened by the addition of several full-time members to the teaching staff, with a view to making possible more intimate personal contact of teacher and student; to render
more effective aid to students in the choice and conduct of their electives and to the more intelligent correlation of the scientific and clinical courses of study.

**LIBRARY AND MUSEUM**

The Library of the College of Medicine contains more than eight thousand volumes, and is located on the second floor of the Medical building. One hundred thirty-two current medical journals are on file and loose-leaf systems of medicine and surgery are kept up to date. From time to time it has received valuable accessions, having received recently the medical libraries of the late Dean H. C. Tinkham, Dr. D. C. Hawley and Dr. F. T. Kidder. The State Laboratory of Hygiene offers for the use of the students of the College its very complete list of medical journals and periodicals.

The Stone Memorial Fund, amounting to one thousand dollars, was contributed by the family, associates, friends and students of Dr. Bingham H. Stone, late Professor of Pathology. The income from the fund is used for the purchase of books or periodicals dealing with Pathology or related subjects. This material together with Doctor Stone’s own books, given by Mrs. Stone, make up the Stone Memorial Library, which is an integral part of the library of the College of Medicine.

The Medical Museum contains a large number of specimens, illustrating both the relation of normal structures to the body and various pathological conditions. A large number of sections of the brain show the internal structure of that organ. These specimens are distributed throughout the laboratories, where they can be made the most useful in teaching various subjects.

**LABORATORY FACILITIES**

In addition to the well-equipped laboratories of Pathology, Bacteriology, Chemistry, Histology, Pharmacology, Physiology and Anatomy, in the College building, there are available and used for teaching purposes the Bacteriological, Diagnostic, Serological, Medico-legal, Food and Water Laboratories of the State Board of Health, situated in the Board of Health building adjoining the College of Medicine. This building is the property of and was fitted up by the University. There exists the closest sympathy between the State Board of Health and the University, making the interests of the two institutions one. The Secretary and Executive Officer of the State Board of Health is Professor of Hygiene in the College; the Director of the Board of Health Laboratory is Professor of Toxicology and Physiological Chemistry in the College; and the Sanitary Chemist of the former institution is Assistant Professor of Chemistry in the department of Hygiene.
Classes in water and milk analyses are held at the Laboratory of Hygiene; the large amount of material sent from all parts of the State to this laboratory furnishes an abundance of material for student use in Pathology, Bacteriology, Clinical Microscopy and Sanitary Chemistry. Furthermore, the Director of the Board of Health Laboratory is by virtue of that position, State Pathologist, a position equivalent to medical examiner in other states, and performs all autopsies required by the State Department of Justice. Much of this material is available for teaching in Pathology.

**FEES AND EXPENSES**

Tuition Fee for each session for Vermont students.................. $300.00
Tuition Fee for students not residents of Vermont.................. 375.00
*Student Activity Fee ......................................................... 30.00
Fee for the Doctor’s Degree, payable at graduation only............... 25.00

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Tuition Fee for Vermont students</td>
<td>$300.00</td>
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<tr>
<td>Tuition Fee for non-Vermont students</td>
<td>$375.00</td>
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<tr>
<td>Student Activity Fee</td>
<td>$30.00</td>
</tr>
<tr>
<td>Fee for Doctor’s Degree</td>
<td>$25.00</td>
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</table>

Average Range

- Room Rent in Converse Hall..... $125.00 to $150.00
- Room Rent in the city .......... 100.00 to 150.00
- Board                        ......... 200.00 to 300.00

Charges for loss or breakage are billed to the student from the Comptroller’s office.

Each student in the College of Medicine is required to possess at the beginning of his Freshman year a compound microscope, conforming in make, model and equipment to a specified standard. Approved microscopes are on sale at the Medical Book Store. In 1933 the price of this standard physician's microscope was $152.00.

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

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

All textbooks and supplies may be purchased at the Medical Book Store, a branch of the University Store.

Tuition is payable semi-annually in advance, and no student will be admitted to enrollment at the beginning of a half-year until he presents a certificate from the Comptroller that bills for the half-year have been paid. The Student Activity Fee of $30.00 is payable in advance, in September, for the year.

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

* Payable annually in advance.
Students who engage a room in a College dormitory are liable for the rental charge for the entire year.

A student who has been dropped into a lower class because of deficiency in his work, or for other reason, will be required to pay his bills for the additional year or years in which he may be a member of the University, and in no case will a scholarship or tuition exemption be available for more than four years.

**HONORS, PRIZES AND SCHOLARSHIPS**

The five students who are found to have secured the highest aggregate of credits, during the entire four years’ course of study in the College of Medicine are designated honor men, and each is graduated as Doctor of Medicine, *cum laude*.

*The Governor Woodbury Prize.*—The Governor Woodbury First Prize of twenty-five dollars is awarded annually to the student who, upon graduation, has shown the greatest proficiency in the clinical subjects in his Senior year. The second prize of twenty-five dollars is awarded to that member of the Sophomore class who has received the largest aggregate of credits in all subjects of the Freshman and Sophomore years.

*The Surgeon General’s Prize.*—The Surgeon General’s Prize is awarded annually by the department to that student in the Senior class who has shown the greatest proficiency and scholarship in Medico-Military Science.

*The Carbee Prize.*—A prize fund of three thousand dollars established by Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the class of 1873 provides that the income of one hundred and fifty dollars on said fund be awarded annually by the Department of Obstetrics to that student of the Senior class who has shown the greatest proficiency in the subject of Obstetrics.

*Fellowships.*—The University Trustees have established two teaching fellowships in Clinical Medicine to be awarded each year, good for two years, which will be given to graduate medical students holding academic degrees, who may wish to pursue further their studies in Clinical Medicine with the purpose of obtaining the degree of Master of Science.

*Scholarships.*—Honor Scholarships to the amount of one hundred and fifty dollars each are awarded annually by the Board of Trustees, good for one year only, to each young man and woman graduating with the highest averages from Vermont high schools accredited by the State Board of Education. These scholarships are available to premedical students taking the work in the College of Arts and Sciences of the University.
The Soldiers' Scholarship Fund was founded for the benefit of students in any College of the University who are descendants of soldiers in the Civil War. The amount is one hundred dollars.

The John Ordronaux Scholarships, nine in number, were founded in 1909 for students in the academic and medical colleges. Each scholarship amounts to $50 per year.

A scholarship fund of three thousand dollars was established by 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 of one hundred and fifty dollars on said fund is to be given annually to a deserving student in the College of Medicine, said scholarship award to be made by the Scholarship Committee of the University.

Fifty State Scholarships of one hundred dollars each for the benefit of medical students in this institution who are in need of financial assistance, and who have resided in Vermont for two consecutive years preceding enrollment, were established by the State Legislature in 1919. Students receiving such scholarships must agree to practice medicine in Vermont one year for each year this aid is given or refund to the State Treasurer the amount of the scholarship benefit received. Application blanks may be obtained from the Comptroller.

PREMEDICAL CURRICULA

The College of Arts and Sciences of the University offers residents of this State a two-year premedical curriculum outlined below which does not lead to a baccalaureate degree, the student being advanced to the College of Medicine upon the satisfactory completion of this curriculum. It includes the subjects prescribed by the Council on Medical Education and Hospitals of the American Medical Association and covers the courses which are deemed most important for the premedical student.

<table>
<thead>
<tr>
<th>TABLE SHOWING STUDIES OF THE TWO-YEAR PREMEDICAL CURRICULUM</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
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<tr>
<td>English 1</td>
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<tr>
<td>French or German</td>
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<tr>
<td>Chemistry 1</td>
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<tr>
<td>Mathematics 1</td>
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<tr>
<td>Botany 1 and Zoology 1</td>
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<tr>
<td>Military Science</td>
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<tr>
<td>Physical Education</td>
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THE UNIVERSITY OF VERMONT

THE SEVEN-YEAR CURRICULUM

It is strongly recommended that students who intend to study Medicine should first complete one of the regular four-year curricula in the College of Arts and Sciences, taking the courses prescribed by the Council on Medical Education and Hospitals of the American Medical Association, and those recommended as being especially valuable. For those who desire the Bachelor's and Doctor's degrees and find it impossible to spend eight years, a combination curriculum of seven years has been provided.

A candidate for a degree in the Classical, Literary-Scientific or General Science curriculum, intending later to enter the College of Medicine, may so arrange as to complete the two curricula in seven years. He must enroll as a premedical student not later than the beginning of his Sophomore year; and must complete the work of the first three years in the College of Arts and Sciences together with one laboratory course each in General and Organic Chemistry, Physics, Botany and Zoology, and so arrange his electives that if he were to complete the work of the fourth year in the College of Arts and Sciences he would fulfill the requirements of the group system. In his fourth year he will be considered as enrolled in both the College of Arts and Sciences and in the College of Medicine, but will pursue only the studies of the first year in the latter college, on the completion of which he will receive his baccalaureate degree.

Students from other institutions who desire to combine the courses must complete at least one full year's work in the College of Arts and Sciences before entering the College of Medicine.

No provision for this combination of courses is made in the College of Arts curricula in Social Science, Teacher Training, and Commerce and Economics, or in the Colleges of Engineering and Agriculture.

Table Showing Studies Taken in the Arts College in the Seven-Year Curriculum

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
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<th>B</th>
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<tbody>
<tr>
<td>English 1</td>
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<td>2</td>
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<tr>
<td>*French or German</td>
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<td>3</td>
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<tr>
<td>Chemistry 1</td>
<td>5</td>
<td>5</td>
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<tr>
<td>Mathematics 1</td>
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<td>4</td>
</tr>
<tr>
<td>†Botany 2 or Zoology 2</td>
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<td>4</td>
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<tr>
<td>Military Science</td>
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<td>2</td>
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<tr>
<td>Physical Education</td>
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<td>1</td>
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</tbody>
</table>

<table>
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<tr>
<th>SECONDS YEAR</th>
<th>A</th>
<th>B</th>
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<tbody>
<tr>
<td>English 2</td>
<td>3</td>
<td>3</td>
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<tr>
<td>French or German</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Mathematics 2</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Physics 1</td>
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<tr>
<td>†Zoology 2 or Botany 2</td>
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<td>Military Science</td>
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<tr>
<td>Physical Education</td>
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* Begun or continued.
† One of these courses must be taken the first year; the other, the second year.
REQUIREMENTS FOR ADMISSION

Enrollment in the College of Medicine has been restricted in the interest of the maintenance of the highest standards. The premedical course offered in the College of Arts and Sciences not only covers all work prescribed by the Council on Medical Education and Hospitals of the American Medical Association, but co-ordinates in subject matter with the courses in the College of Medicine. Owing to the number of students who register each year in his University in the premedical courses, only a few students who take their premedical work elsewhere can be considered for enrollment in the College of Medicine.

Eligibility of an applicant for enrollment in the Freshman class is finally determined by the Enrollment Committee of the Faculty of the College of Medicine and the Registrar of the University, and is based upon:

First, the degree or grades earned by the applicant in his Premedical course; second, the score earned in the Aptitude Test, adopted by the Association of American Medical Colleges; third, the personality and general fitness of the applicant for the study of medicine, as determined by a personal interview with the above-named committee.

The dates of these meetings will be announced by the Registrar, or they may be by appointment with the Dean.

ENROLLMENT

Payment of bills, registration and enrollment occur on the first day of the College year. Printed directions may be secured from the Registrar. Registration for each session closes seven days after the opening of College. New students will not be enrolled in the College of Medicine except at the beginning of a session.
ADMISSION OF STUDENTS TO ADVANCED STANDING

Vacancies arising in any class may be filled by the admission of students to advanced standing provided:

(1) That the premedical and medical work accords with the courses required at this institution, and was taken at an institution recognized by the Council on Education and Hospitals of the American Medical Association.

(2) That the scholastic record is well above the class average of the school attended.

(3) That the previous record shows that one or more years have not been repeated on account of low scholarship.

(4) That the statement of record shows no outstanding condition whatsoever.

A personal interview is required of all applicants for admission by transfer to the College of Medicine, but preference will be shown to residents of the State of Vermont, particularly those holding a baccalaureate degree.

Students desiring advanced standing are subject to the same rules in regard to advancement in course, as students who have attended this college. No applicant for advanced standing will be enrolled under more favorable conditions than would obtain were he to continue at the institution from which he seeks to transfer.

A student desiring to enter an advanced class must present a letter of honorable dismissal and a certificate from the college from which he comes indicating the subjects presented for admission, the courses completed and the conditions under which he could continue.

REQUIREMENTS FOR ADVANCEMENT IN COURSE

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

The work of each year is final and students are advanced when they have satisfactorily completed the work assigned for the year.

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, upon the result of the mid-year examinations and upon the result of the examinations held at the end of the session.
Students who fail in not more than twenty-five percent of the work by subjects in the first, second, or third years, may be re-examined in these subjects at the regular examination period preceding the opening of the next session. The marks obtained in this re-examination are computed with the credits earned during the preceding session in exactly the same way as those obtained in the examination at the end of the session.

A student who, upon re-examination again fails, will not be advanced; provided, however, that if such failure be in a single subject which is not completed in that year, the student may, upon recommendation of the head of the department in which he failed, and by a vote of the Faculty, be advanced with a condition.

A student who is not present at an examination will be classed as having taken the examination and failed, unless excused from such examination by the Faculty.

Students who have failed in more than twenty-five percent of the work by subject in any year may enroll the following session to repeat the work of that year, only upon consideration and express approval of the faculty.

A student who has been a member of any class for two sessions, and has failed to complete satisfactorily the work of that year, will not be enrolled again as a student of the College.

A student will not be permitted to become a member of the third-year class until he has removed all conditions of the first year; and a student will not be permitted to become a member of the fourth-year class until he has removed all conditions of the second year.

**REQUIREMENTS FOR GRADUATION**

Candidates for the degree of Doctor of Medicine must have reached the age of twenty-one years and must have presented satisfactory evidence of good moral character. All the requirements of this college in regard to preliminary education must have been met, and the candidate must have attended regularly and completed satisfactorily the prescribed work of four courses of instruction in Medicine of at least thirty-two weeks each, including the earning of a satisfactory grade in the work of the extra-mural service.

Students are expected to serve a one-year internship in a hospital approved by the Council on Education and Hospitals of the American Medical Association, in addition to the four years of college work.
All candidates for the degree of Doctor of Medicine must be present at Commencement unless excused by the Dean of the College and the President of the University.

OUTLINE OF THE FOUR-YEARS' CURRICULUM

The curriculum has been arranged so that the study of the several branches of medicine is taken up in a systematic way.

The student is taught first the general structure of the body, its embryological development, the functions of the various organs, the chemical processes taking place in the body and the minute structure of the tissues and organs in health.

Then follows consideration of the changes in gross and microscopic anatomy, the variations in the chemical processes and in the functions of organs and tissues under the influence of disease, how such changes give rise to different symptoms and physical signs, and the methods of interpreting such findings in arriving at a diagnosis.

The student is then taught the methods of investigating diseases, their causes and prevention, as well as the remedies used in their treatment. The various surgical conditions are considered, the indications for treatment or operation, and the technique of operating. Reproduction and development are studied and the diseases of pregnancy as well as the management of labor.

Instruction is given by lectures, demonstrations, recitations, practical courses, laboratory work, clinics and clinical teaching at the bedside and in the Dispensary. For clinical work the class is divided into small sections so that each student receives the personal attention of the instructor.

The work of the First Year includes the study of Anatomy, Physiology, Physiological Chemistry, Histology, Embryology and Bacteriology.

The courses in Anatomy and Physiology have been graded to cover two years, the work of each year being practically complete in itself.

Laboratory courses are given in Anatomy (dissecting), Histology, Embryology, Physiology and Chemistry.

During the Second Year the study of Physiology is completed. Courses are given in Materia Medica, Pharmacology, Pathology, Surgery, Medicine and Hygiene. Laboratory courses are given in Anatomy, Pathological Histology, Clinical Pathology, Physiology and Bacteriology.

The work of the Third Year includes Surgery, Obstetrics, Special Pathology, Therapeutics and the various special subjects of Medicine and Surgery.
There are practical courses in Physical Diagnosis, Minor Surgery, Bandaging, and Obstetrics with the manikin. The students attend surgical and medical clinics, in which they are instructed in the methods of investigating disease, in properly interpreting the symptoms of disease, in the principles of differential diagnosis, and in the indications for treatment.

The Fourth Year is devoted largely to the study of diagnosis and the treatment of disease, the larger part of the work being given at the general hospitals, the Dispensary and under preceptors, where students examine patients, make diagnoses and outline treatment.

The class is divided into sections, usually of four students each, which are assigned to various services in rotation. These services include medical, surgical, pathological and specialties at the hospital, medical, surgical and specialties at the Dispensary, as well as obstetric and pediatric work at the Elizabeth Lund Home; out-patient service with city physicians; four weeks with a preceptor, a general practitioner in the country, and two weeks of intensive training in each of six public institutions.

During this year the students are required to assist at autopsies under the instruction of the Professor of Pathology, and to make such microscopic study of the tissues removed as may be of value in understanding the pathological history of the case.

One two-hour period each week is devoted to a clinical conference for which students prepare and present all possible data, clinical and pathological, upon some case which they have studied, usually one which has come to autopsy. These exercises are held under the joint supervision of the departments of Medicine, Surgery and Pathology, and cases studied are thoroughly discussed. This conference is attended by the Third Year students as well as by those of the Fourth Year class who are not on Extra-mural Service.
DETAILS OF INSTRUCTION IN THE DEPARTMENTS OF STUDY

THE DEPARTMENT OF ANATOMY

THOMAS STEPHEN BROWN, M.D. .............. Thayer Professor of Anatomy
HOVEY JORDAN, Ph.B., M.S., A.M.,
    Associate Professor of Biology, Histology and Embryology
CHESTER ALBERT NEWHALL, A.B., M.D. ....... Assistant Professor of Anatomy
WALFORD TUPPER REES, M.D. .............. Instructor in Surgical Anatomy
KEITH FRANK TRUAX, B.S., M.D. .............. Instructor in Anatomy
ALBERT GEORGE MACKAY, B.S., M.D. .............. Instructor in Histology

I. Histology

II. Embryology

First Year. Histology.—
(First 22 weeks, 5 hours per week) (110 hours).

a. Lectures. Microscopic structure of normal human tissues and organs, including the nervous system. Twenty-two hours.

b. Recitations.

c. Laboratory work. Study of the microscopic anatomy of the fundamental tissues and of the organs, mainly human material. Eighty-eight hours.

Embryology.—
(Last 10 weeks, 5 hours per week) (50 hours).


b. Recitations.

c. Laboratory work. Study of the general development of tissues and organs and of special topics which are of practical value. Microscopic examination of serial sections of embryos, and examination and dissection of whole embryos, animal and human, of various ages. Forty hours.
GROSS ANATOMY

THOMAS STEPHEN BROWN, M.D. .............. Professor of Gross Anatomy
CHESTER ALBERT NEWHALL, A.B., M.D. .... Assistant Professor of Anatomy
WALFORD TUPPER REESES, M.D. ............ Instructor in Surgical Anatomy
KEITH FRANK TRUAH, B.S., M.D. ............ Instructor in Anatomy

First and Second Years.—This course runs through two years, but most of the work is done in the first half of the first year.

a. Lectures. First year, sixteen hours; second year, sixteen hours.
b. Recitations. First year, sixteen hours; second year, thirty-two hours.
c. Laboratory work. First year, three hundred and four hours; second year, sixty-four hours.

First year.—Osteology.—Dissection. Demonstration of specimens. Each student is required to dissect one-half of the human body.


Textbooks—Piersol, Gray, Cunningham.
Practical Anatomy—Cunningham's Practical Anatomy, Heisler's Practical Anatomy.

Collateral Reading—Morris, Davis, Sabotta and McMurrich.
Embryology—Prentiss, McMurrich, Bailey and Miller, and Minot.
Histology—Schäfer, Piersol, Bailey, Stöhr, Huber.

THE DEPARTMENT OF PHYSIOLOGY

FRED KINNEY JACKSON, A.B., M.D. .............. Professor of Physiology
ANTHONY ALONGE, A.M. ....................... Instructor in Physiology
O. GARTH FITZHUGH, M.Sc. ................... Instructor in Physiology

First and Second Years.—

a. Recitations. First year, sixty-four hours; second year, sixty-four hours.
b. Demonstrations and laboratory work. First year, sixty-four hours; second year, thirty-two hours. The course runs through two years.

First-year work begins with the second semester and includes muscle-nerve, blood, circulation, respiration, digestion, and excretion.
Second-year work includes internal secretion, dietetics, metabolism, body heat, reproduction, the nervous system, and the special senses. Prizes are
awarded for the highest standing in laboratory. A general review is given in the second semester.

Textbooks—Howell's *Textbook of Physiology* and Jackson's *Essentials of Physiology*.
Collateral reading—McLeod, Martin and Weymouth, Starling, Wright's *Applied Physiology*, current magazines in Medical Library.

## THE DEPARTMENT OF CHEMISTRY

Charles Flagg Whitney, M.S., M.D.,
*Professor of Toxicology and Physiological Chemistry*

Embree Rector Rose, A.B., A.M.,
*Assistant Professor of Physiological Chemistry*

### I. General Physiological Chemistry

(a) Didactic.—Two hours a week throughout the first year are given to discussions and recitations on Physiological Chemistry. *Sixty-four hours.*

(b) Laboratory Course.—The laboratory course occupies one two-hour period a week during the first semester and two two-hour periods during the second semester. *Ninety-six hours.*

The lectures, recitations and laboratory work are closely correlated and include such subjects as carbohydrates, fats, proteins, digestion, absorption, blood, general metabolism, urine, etc.

Textbooks and reference books—Bodansky's *Biochemistry*; Matthew's *Physiological Chemistry*; Hawk and Bergman's *Biochemistry*.

## THE DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

David Marvin, M.D. .......... *Professor of Pharmacology and Therapeutics*

Anthony Alonge, A.M. ............... *Instructor in Pharmacology*

O. Garth FitzHugh, M.Sc. .......... *Instructor in Pharmacology*

### Second Year.—

- Lectures. *Thirty-two hours.*
- Recitations. *Sixty-four hours.*
- Laboratory. *One hundred twenty-eight hours.*
I. Materia Medica.—
Lectures and recitations throughout the year on drugs and the methods of administering them.

II. Prescription Writing.—
Recitations—Practical exercises in writing prescriptions. Course extends through the year.

III. Pharmacy.—
Laboratory work—Compounding prescriptions, manufacture and standardizing of official preparations, demonstration of incompatibilities.

IV. Toxicology.—
Laboratory work—Detection of drugs in the urine. Effect of chemic antidotes on poisons. Effect of chemic corrosives and powerful irritants on human tissues.

V. Pharmacodynamics.—
Lectures and recitations through the second semester.
Laboratory work—Experimental pharmacodynamics.
Research—The laboratory will be open during the college year to advanced students or to those who wish to do original research work.

Third Year.—
Recitations. Thirty-two hours.

I. Therapeutics.—
The subject of Therapeutics is taught during the students' Junior year; a systematic didactic course is given embracing general and special Therapeutics. Thirty-two hours.
Textbooks—Sollmann, Materia Medica, Pharmacology and Therapeutics; Bastedo, Pharmacology and Therapeutics; Thornton, Manual of Prescription Writing; American Medical Association, Useful Remedies; Marvin, Laboratory Guide in Pharmacy.
Therapeutics—Stevens, Therapeutics; Hare's System (3 Vols.), Hare (1 Vol.).
Collateral Reading—Cushney, Pharmacology and Therapeutics; Potter, Materia Medica, Pharmacy and Therapeutics; U. S. Pharmacopoeia; U. S. Dispensary; Arny, Principles of Pharmacy.
DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

Ernest Hiram Buttles, A.B., M.D.,

Professor of Pathology and Bacteriology

Wendell Everett James, A.B.,

Assistant Professor of Bacteriology and Clinical Pathology

Myrtelle May Canavan, M.D.

Instructor in Neuropathology

Arthur Bradley Soule, Jr., A.B., M.D.,

Assistant Professor of Pathology and Bacteriology

Kendrick McCullough, M.D.

Instructor in Pathology

Ellsworth Lyman Amidon, B.S., M.D.

Instructor in Pathology

First Year.—
I. Bacteriology.—
Lectures and Recitations—Two hours per week, second semester. Thirty-two hours.

Second Year.—
1. Pathology.—
Recitations—Two hours per week. Sixty-four hours.
Laboratory.—Five hours per week, first semester, and six hours per week during second semester. One hundred seventy-six hours.

II. Clinical Pathology.—
Recitations—One hour per week, second semester. Sixteen hours.
Laboratory—Six hours per week, second semester. Ninety-six hours.

III. Bacteriology.—
Lectures and Recitations—Two hours per week, first semester. Thirty-two hours.
Laboratory—Six hours per week, first semester. Ninety-six hours.

Third Year.—
1. Pathology.—
Recitations and Lectures—Two hours per week. Sixty-four hours.

Fourth Year.—
1. Hospital Laboratory.—
An average of twelve hours per week for two weeks for each student.

II. Clinical Conferences.—
Two hours per week throughout the year, in conjunction with the Department of Medicine.
III. Autopsies.—
The class attends autopsies at the hospital morgue. These average one or more per week and are subsequently discussed by the class.

Textbooks—Pathology, Bell, *Textbook of Pathology*; Bacteriology, Bigger's *Handbook*; Clinical Pathology, Todd and Sanford.

**DEPARTMENT OF MEDICINE**

Clarence Henry Beecher, M.D., F.A.C.P..........Professor of Medicine
Paul Kendrick French, Ph.B., M.D., F.A.C.P.,
    Associate Professor of Clinical Medicine
Charles Arthur Ravey, M.D.................Instructor in Medicine
Elmer Waters Pike, M.D........................Instructor in Medicine
Hiram Eugene Upton, B.S., M.D........Instructor in Clinical Medicine
Adolphus Duncan Rood, M.D...............Instructor in Bronchoscopy

Course runs through second, third and fourth years.

Second Year.—
**Physical Diagnosis (Normal).**—
(a) Recitations; (b) Examination of patients. Auscultation and percussion and other methods of examination. *Thirty-two hours.*

Third Year.—
**Physical Diagnosis (Continued) (Pathological).**—
Instruction given to class by sections. Recitation, *thirty-two hours*; Clinics, *thirty-two hours*.

Lectures and Recitations.—
General Medicine and special branches, Neurology, Psychiatry, Pediatrics, Tropical Medicine, Hygiene, Medical Jurisprudence, Toxicology and Dermatology. *One hundred ninety-two hours.*

History Recording and Symptomatology.—
Clinics.—
Elementary.

Dispensary Work.—
In sections last semester.

Fourth Year.—
**Lectures—Case History Discussions.**—
Selected subjects. *Sixty-four hours.*
Clinics.—
Before whole class in amphitheatre of Mary Fletcher Hospital.

Ward Work.—
Sections of class in wards of Mary Fletcher and Fanny Allen Hospitals.

Conferences with Surgical Teachers and Pathologists.—
Laboratory work in Clinical Pathology.

Dispensary Work.—
In sections first semester.
Laboratory and Clinics. Sixty-four hours.

Bronchoscopy.—
Lectures and clinics before whole class. Sixteen hours.
Textbooks—Conybeare’s Textbook of Medicine; Physical Diagnosis—
Lowenberg’s Diagnostic Methods in Modern Medicine.

THE DEPARTMENT OF CLINICAL MEDICINE

Paul Kendrick French, Ph.B., M.D., F.A.C.P.,
Associate Professor of Clinical Medicine

Hiram Eugene Upton, B.S., M.D. . . . . . . Instructor in Clinical Medicine

Fourth Year.—
Clinical Medicine is given throughout the Senior year. The course includes daily “Ward Walks” under an instructor and an instructor and the chief; daily attendance upon the Dispensary; visits upon the sick at their homes and at various institutions under supervision.
Textbook—Internal Medicine, Musser.
THE DEPARTMENT OF SURGERY

I. SURGERY

John Brooks Wheeler, A.B., Sc.D., M.D., F.A.C.S.,
Professor Emeritus of Surgery

Lyman Allen, A.B., M.S., M.D., F.A.C.S......Professor of Surgery

George Millar Sabin, B.S., M.D., F.A.C.S...Professor of Clinical Surgery

Robert Leland Maynard, M.D., F.A.C.S.,
Assistant Professor of Orthopedic Surgery

Benjamin Dyer Adams, M.D., F.A.C.S......Assistant Professor of Surgery

Walford Tupper Rees, B.S., M.D., F.A.C.S...Assistant Professor of Surgery

Adolphus Duncan Rood, M.D..............Instructor in Bronchoscopy

George Albert George Mackay, B.S., M.D........Instructor in Anesthetization

Second Year.—

Recitations.—
Principles of surgery. *Sixty-four hours.*

Practical Surgery.—
Bandaging, use of splints and other surgical appliances.

Third Year.—

Clinics.—
Besides the section work already mentioned, third-year students attend one amphitheatre clinic each week, for a half year. *Sixteen hours.* (Clinical conference for two hours each week.) *Thirty-two hours.*

Fourth Year.—
Regional surgery. *Thirty-two hours,* to each half of the class.

Minor Surgery.—
Fractures and dislocations and minor surgery.
Taught in sections in wards and in amphitheatre clinics.

Clinics.—
One amphitheatre clinic is held every week by the Professor of Surgery, in which operations and dressings are done and cases are shown and discussed. Operations by the members of the Surgical Staff are
done nearly every day in the smaller operating rooms before sections of the class.

**Anesthetization.**

Practical instruction. Each student required to anesthetize several patients under direction of the Instructor in Anesthetization.

Textbooks—*General and Regional*, Homans, DaCosta, Keen, Babcock; *Operative*, Binnie, Horsley, Bickman; *Fractures and Dislocations*, Scudder, Cotton, Stimson, Key and Conwell.

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**II. CLINICAL SURGERY**

**George Millar Sabin, B.S., M.D., F.A.C.S.**... *Professor of Clinical Surgery*

**Walford Tupper Rees, M.D., F.A.C.S.**... *Assistant Professor of Surgery*

**Keith Frank Truax, B.S., M.D.**... *Instructor in Clinical Surgery*

Instruction in Clinical Surgery is given during the third and fourth years by means of lectures, demonstrations and practical work in the operating room, at the bedside, and at the Dispensary.

**Third Year.**

*One hour weekly throughout the year.*

This arrangement, combining surgical anatomy with clinical surgery, is admirably adapted to emphasize the importance of a good knowledge of anatomy as a fundamental factor in diagnosis. History-taking is an important part of this course, case histories being studied and students taught how to analyze and evaluate symptoms. Methods of examining patients are demonstrated, the various instruments are shown and their uses explained. Case history teaching is used to exemplify the method of making diagnosis. Operations are done to demonstrate surgical technique.

**Fourth Year.**

*Two hours daily throughout the year, groups being assigned in rotation.*

The class is divided into groups of four students each. These groups are assigned to the various parts of the regular hospital work as hospital clerks, and also have work at the Dispensary. Their work is done under the supervision of an instructor.

This is a rotating service, so that each student is on duty in each of the various departments at some time during the year.

This service includes history-taking of all hospital cases, discussion of cases requiring surgical treatment, surgical technique in the operating room,
demonstration and study of pathological specimens from operations done, and observation of post-operative care and dressings. Students thus observe patients from the time they enter the hospital until they are discharged. They make daily visits to cases following operation, and are required to make record of the progress of the case, suggest treatment, etc. The dispensary work includes some minor surgery and dressings. All of this work is done under the supervision of an instructor.

Textbooks—Surgical Anatomy, Davis, Campbell; Surgical Diagnosis, Martin; Diagnostic and Therapeutic Technic, Morrow; Preparatory and After Treatment, Haubold, Bartlett.

THE DEPARTMENT OF OBSTETRICS

Patrick Eugene McSweeney, M.S., M.D., F.A.C.S.,
Professor of Obstetrics and Gynecology

Oliver Newell Eastman, M.D., F.A.C.S.,
Associate Professor of Obstetrics

Herbert Ashley Durfee, A.B., M.D., F.A.C.S.,
Assistant Professor of Obstetrics

Third Year.—
Lectures and Recitations.—

Practical Obstetrics.—

Fourth Year.—
Lectures and Demonstrations.—
Abnormalities and complications of labor. Thirty-two hours.

Practical Obstetrics.—
Students attend cases of labor under supervision of a clinical instructor. Textbook—Williams' Obstetrics. References—Bland's Obstetrics; De-Lee's Principles and Practice of Obstetrics.
THE DEPARTMENT OF HYGIENE

Charles Francis Dalton, M.D.,
Professor of Hygiene and Preventive Medicine

Charles Perkins Moat, B.S.,
Assistant Professor of Chemistry of Foods, Milk, Drugs and Water

David Manson, D.D.S.
Instructor in Oral Hygiene

Second Year.—

Lectures and Demonstrations.—
General sanitation, ventilation, water and milk supplies, sewage and water purification, vital statistics. Thirty-two hours.

Third Year.—

Lectures and Demonstrations.—
Epidemiology, diagnosis and control of communicable diseases and other problems of preventive medicine, also lectures in Oral Hygiene. Sixty-four hours.
SPECIAL SUBJECTS

GYNECOLOGY

Patrick Eugene McSweeney, M.S., M.D., F.A.C.S.,
Professor of Gynecology

Herbert Ashley Durfee, A.B., M.D., F.A.C.S.,
Assistant Professor of Gynecology

Edward Douglas McSweeney, A.B., M.D., F.A.C.S.,
Instructor in Gynecology

Third Year.—
Review of anatomy and physiology of female reproductive tract, and etiology, pathology, symptomatology and treatment of diseases of women.
Lectures and recitation. Sixty-four hours.

Fourth Year.—
Clinics, in hospital amphitheatre, two hours each week. Practical demonstrations of radium therapy. Section work in wards. History taking, examination, diagnosis, treatment. Complete history of each case required. Sixty-four hours.
There is one hour of clinic each week where the various operations in Gynecology are performed. Especial attention is given to the consideration of lacerations, the influence these have on the pelvic viscera, the reflex symptoms caused, and the principles involved in their proper repair.

NEUROLOGY

Truman James Allen, M.D. Assistant Professor of Neurology

Third Year.—
Lectures and recitations. Thirty-two hours.
Fourth Year.—
Clinics once a week through year. *Thirty-two hours.*
Textbooks—Wechsler, Dana, Monrad-Krohn. References—Purves-Stewart, Tilney and Riley.

**PSYCHIATRY**

James Charles O'Neil, B.S., M.D. .......... *Professor of Psychiatry*
Clarence Alden Bonner, M.D. .......... *Assistant Professor of Psychiatry*

Third Year.—
Lectures. Descriptive Psychology, Symptomatology, Classification of Mental Diseases, Diagnosis and Treatment of Mental Diseases. History Taking. Examination Procedures. Commitment of Insane. *Twenty-two hours.*

Fourth Year.—
Each student spends two weeks at the Vermont State Hospital. Staff meetings, Clinics, Ward work, examination of patients, under the supervision of Doctor O'Neil.

**PEDIATRICS**

Charles Kimball Johnson, M.D., F.A.A.P. .......... *Professor of Pediatrics*
Paul Dennison Clark, M.D. .......... *Clinical Instructor in Pediatrics*

Third Year.—
This includes textbook recitations and discussions on the normal infant, diseases, and infant feeding. *Thirty-two hours.*

Fourth Year.—
Lectures. *Eighty hours.*
Physical diagnosis and practical instruction on cadaver in intubation, tracheotomy and lumbar puncture. Infant feeding.
Case history discussions.
Weekly clinic before whole class in amphitheatre at Mary Fletcher Hospital. *Thirty-two hours.*
Section work at the Dispensary and Orphan Asylums, where excellent opportunity is provided for practical work in infant feeding, diagnosis and treatment.
OPHTHALMOLOGY, RHINOLOGY AND OTOLARYNGOLOGY

Emmus George Twitchell, A.B., M.D.,
Associate Professor of Ophthalmology and Otolaryngology

Karl Cornelius McMahon, B.S., M.D.,
Clinical Instructor in Ophthalmology and Otolaryngology

Arthur Leo Larner, M.D. ...........Clinical Instructor in Otolaryngology

Third Year.—
Lectures and recitations. Fifty hours.
Diseases of the lids, conjunctiva, orbit, lacrimal apparatus, cornea and uveal tract.
Lectures and practical demonstration of the methods used in estimating the refraction, including the use of the ophthalmoscope are given at the Mary Fletcher Hospital.
Lectures and recitations on the common diseases of the nose and throat, and the external diseases of the ear, with demonstrations at the hospital of the methods of examination.

Fourth Year.—
Lectures and clinics. Fifty hours.
Clinical instruction Tuesday and Friday afternoon of each week at the Mary Fletcher Hospital outdoor clinic and at the Free Dispensary. Indoor cases are also used for teaching.
Patients are examined before the sections and by the sections. Treatments and methods of treatment are shown and explained.
Textbooks—Eye, May, De Schweinitz; Ear, Gleason, Phillips; Ear, Nose and Throat, Turner; Diseases of Nose and Throat, Coakley.

UROLOGY AND VENEREAL DISEASES

William Graves Townsend, B.S., M.D., F.A.C.S.,
Assistant Professor of Urology

Fourth Year.—
Lectures and recitations on genito-urinary diseases and dispensary work. Clinic once a week; ward work and dispensary work throughout the year. Thirty-two hours.
Textbooks—Le Comte, Lowsley and Kirwin, Keyes.
DERMATOLOGY

EUGENE FREDERICK TRAUB, B.S., M.D. ........Professor of Dermatology

Third Year.—
Lectures and demonstrations. *Forty-eight hours.*
Lectures with projectoscope and lantern slide illustrations.
Clinics—history taking—method of procedure in examination of patients and demonstrations of all the more common skin diseases. *Twenty-four hours.*

Fourth Year.—
Clinical demonstrations of the common skin diseases. *Forty-eight hours.*
Textbooks—Sutton, Ormsby, Sutton and Sutton.

ORTHOPEDIC SURGERY

BRAINERD HUNT WHITBECK, A.B., M.D. . . . Professor of Orthopedic Surgery
ROBERT LELAND MAYNARD, M.D., F.A.C.S.,
Associate Professor of Orthopedic Surgery

Fourth Year.—
Textbook—Whitman’s *Orthopedic Surgery.*

MEDICAL JURISPRUDENCE

EDMUND CURTIS MOWER, A.M., LL.B. . . . Lecturer in Medical Jurisprudence

Third Year.—
Lectures.—Right to practice, contractual relations between physician and patient, the law of malpractice, legal aspects of the physician’s duties under public health laws, autopsies and reports thereon, medico-legal aspects of certain crimes, expert testimony, insanity, judicial toxicological investigations. *Twenty hours.*
TOXICOLOGY

CHARLES FLAGG WHITNEY, M.S., M.D.,
Professor of Toxicology and Physiological Chemistry

Third Year.—

The course consists of discussions and recitations one hour a week during the first semester of the third year. The time is divided about equally between General Toxicology and Special Toxicology in which each important poison is studied in reference to its origin, effect on the body, detection, etc. Sixteen hours.

Textbook—Underhill's Toxicology.

MEDICO-MILITARY SCIENCE

DANIEL PARKER CARD, M.D., Lieutenant Colonel Medical Corps,
U. S. A. ... Professor of Medico-Military Science

Lectures.—The final year only of the Advanced Course will be given to the Senior class, who on receiving their degrees in Medicine, will be commissioned as First Lieutenants in the Medical Reserve Corps.

The period required for lectures is one hour per week.

ROENTGENOLOGY

ARTHUR BRADLEY SOULE, JR., A.B., M.D. ... Instructor in Roentgenology

Second and Third Years.—

Practical demonstration with fluoroscope of heart and lungs. Ten hours.

Fourth Year.—

Lectures and demonstrations. Sixteen hours.

The course consists of lectures in the Physics of the X-ray and X-ray apparatus; interpretation of films; and therapy, superficial and deep. Clinical discussion of cases is also carried on in conjunction with the Departments of Medicine, Pathology and Surgery.
THE UNIVERSITY OF VERMONT

TROPICAL MEDICINE

Daniel Parker Card, M.D., Lieutenant Colonel Medical Corps,
U. S. A. Professor of Tropical Medicine

Third Year.—

Lectures.—A course of lectures on Tropical Medicine will be given,
supplemented by microscopic demonstrations. Sixteen hours.
Reference books—Manson's Tropical Diseases; Stitt's Tropical Diseases.

MEDICAL HISTORY

William Gray Ricker, A.B., M.D. Lecturer in Medical History

Third Year.—

The course given in the first semester will consist of lectures concerning
the lives of the pioneers in medicine and will include the showing of the
earliest possible printed editions procurable of their work. Eight hours.
Reference books—Sigerist's The Great Doctors; Major's Classic Descriptions of Disease.
FOURTH YEAR
Class of 1934

Richard Alliso n Backus, Jr., B.S.
Leonard Macy Berry, B.S.
Edward Summer Brewster, A.B.
Donald Ellsworth Coburn, B.S.
John Lee Cogdall, B.S.
Eugene Joseph Desautels, B.S.
Reginald Fuller DeWitt, B.S.
William Allen Donnelly, B.S.
Burton Lawton Emerson, B.S.
Winthrop Maillot Flagg
Alfred Leo Frechette
Emilio Giannarelli
Howard Theodore Guare
Thomas Joseph Halligan, B.S.
Harlan Eugene Karr, B.S.
Aldo Leani
Ruth Irene Leonard, B.S.
Eugene Harvey Luck, B.S.
John Frederic Lynch, Jr., B.S.
Thomas Smith McLean, Jr., B.S.
Christie Ellen McLeod, B.S.
Thor Olson, B.S.
Duncan William Persons
Philip Reynolds Ransom, B.S.
James Joseph Reedy, B.S.
Flora Marie Remillard, B.S.
*Paul Greene Rowand
John Louis Saia, B.S.
Anthony Theodore Scutakes, B.S.
Karl Fader Searles, B.S.
Arthur Bradford Sharlapes, B.S.
Benjamin Singerman, B.S.
Paul Colby Willard, B.S.

S. Orange, N. J.          Boston, Mass.
Plainville, Conn.         Burlington
New York, N. Y.           Peru, N. Y.
Hardwick                 Rutland
Burke, N. Y.              Nu Sigma Nu House
Burlington               20 Brookes Ave.
Burlington               Nu Sigma Nu House
Burlington               Fanny Allen Hospital
Burlington               Nu Sigma Nu House
Burlington               Fanny Allen Hospital
Barre                    9 Proctor Ave.
Montpelier               34 Buell St.
Montpelier               Fanny Allen Hospital
Montpelier               228 Maple St.
Northfield               243 Colchester Ave.
Barre                    115 N. Union St.
Plainfield               10 Lafayette Pl.
Burlington               115 N. Union St.
Burlington               21 N. Williams St.
Bridgeport, Conn.        51 N. Willard St.
S. Barre                  91 N. Winooski Ave.
Brattleboro              7 Greene St.
Hudson, Mass.            115 N. Union St.
Castleton                115 N. Union St.
Rutland                  20 Brookes Ave.
Saco, Me.                Fanny Allen Hospital
New Canaan, Conn.        333 S. Prospect St.
Barre                    115 N. Union St.
Burlington               21 N. Williams St.
St. Johnsbury            31 Elmwood Ave.
New Bedford, Mass.       115 N. Union St.
Burlington               Phi Delta Epsilon House
Passumpsic               143 Main St.

THIRD YEAR
Class of 1935

Harold Wilson Adams, B.S.
Samuel Righter Berenberg, A.B.
Peary Ben Berger
Frank William Boyd

*Deceased July 3, 1934.
John Frank Buglino
Mortimer Daniel Burger, A.B.
Francis Vincent Burke, B.S.
Louis Alfred Cibelli, B.S.
John Charles Cunningham, A.B.
Herman Berg Dattner, B.S.
Murray Kattelle Dunsmore
Richard Carl Fuller, B.S.
Eva Rose Goldberg, B.S.
Dennis Leo Hallisey
Edward Glens Hurlburt, B.S.
Robert Wells Hyde, B.S.
Seymour Isaac Nathanson, B.S.
Leighton Helmoth Noyes
Julius Samuel Perelman, B.S.
George Arthur McIntyre, B.S.
Thomas Royce Marvin, B.S.
Sigmund Sidney Keil, B.S.
John Frederic Kelly
George 0lin Pratt
Howard Lake Reed, B.S.
Abraham Harry Roller, B.S.
Chester Rutkowski, B.S.
Leo Segal, B.S.
Solam Segel, B.S.
Hyman Shuman, B.S.
William Joseph Slavin, Jr., B.S.
Jacob Smith, B.S.
Raymond Hildreth Spooner, B.S.
Hewitt Irving Varney, B.S.
Gerard Frederick West
Ralph Edmund Williams, A.B.

Brooklyn, N. Y. 69 N. Prospect St.
Mt. Vernon, N. Y. 179 Loomis St.
Brooklyn, N. Y. 132 Colchester Ave.
New York, N. Y. 131 N. Union St.
Richmond Phi Delta Epsilon House
Luzerne, Pa. Richmond
Santon Nu Sigma Nu House
Swanton Mary Fletcher Hospital
Saxtons River
Jefferson, Ohio 132 Colchester Ave.
Nashua, N. H. 93 Church St.
Bridgeport, Conn. Nu Sigma Nu House
Bakersfield 131 N. Union St.
Burlington 88 N. Prospect St.
Newark, N. J. 112 Loomis St.
Rutland Nu Sigma Nu House
Burlington 123 King St.
Lyon Mountain, N. Y. 28 Williams St.
Fitchburg, Mass. 35 Wilson St.
Brattleboro 267 Pearl St.
Burlington 358 N. Winooski Ave.
Burlington 49 S. Winooski Ave.
Jacksonville Nu Sigma Nu House
Jersey City, N. J. 158 N. Willard St.
Rutland 28 Williams St.
Roxbury, Mass. 61 N. Willard St.
Gardner, Mass. 165 N. Winooski Ave.
Fitchburg, Mass. Tau Epsilon Phi House
Horseheads, N. Y. Nu Sigma Nu House
Brunswick, Me. 61 N. Willard St.
Brimfield, Mass. 93 Church St.
Bristol Mary Fletcher Hospital
Burlington 36 Lafayette Pl.
Oakland, Me. 267 Pearl St.

SECOND YEAR
Class of 1936

Fred Ashley Almquist, Ph.B.
Mark Drew Archambault, B.S.
John Arthur Bannon
Max Leonard Bergman, B.S.
Blaney Beverly Blodgett, B.S.
Madison Baldwin Brown, B.S.
Oscar Henry Calcagni, B.S.
Maurice Raymond Caron
Sidney Hopkins Carsley, B.S.
James John Cognetta, B.S.
Matthew Cohen
Stuart Starnes Corbin, B.S.

Burlington 151 Loomis St.
Essex Junction
Glens Falls, N. Y. Bishop DeGoebriand Hospital
Burlington 22 Loomis St.
Burlington 267 Pearl St.
Burlington 419 S. Prospect St.
Hardwick 119 Buell St.
S. Hero S. Hero
Palmer, Mass. 62 S. Willard St.
Stamford, Conn. 34 Buell St.
Bridgeport, Conn. 64 N. Prospect St.
Burlington 475 S. Willard St.
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>Street</th>
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<tr>
<td>Nelson John Dente</td>
<td>Northfield</td>
<td>119 Buell St.</td>
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<td>Raymond Madiford Peardon Donaghy, B.S.</td>
<td></td>
<td>128 Colchester Ave.</td>
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<td>Merton Newcomb Flanders, A.B.</td>
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<td>Edwin Burns Gammell</td>
<td>Burlington</td>
<td>145 Intervale Ave.</td>
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<td>Abraham Gardner, B.S.</td>
<td>Whitesboro, N. Y.</td>
<td>349 College St.</td>
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<td>Frederick Kellogg Gifford</td>
<td>Bennington</td>
<td>197 N. Willard St.</td>
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<td>Milton Jack Greenberg</td>
<td>New Britain, Conn.</td>
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<td>Harold Joseph Greenblatt, B.S.</td>
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<td>Theodore Henry Harwood, A.B.</td>
<td>Dorset</td>
<td>Nu Sigma Nu House</td>
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<td>Samuel Emil Haskel, B.S.</td>
<td>Scarsdale, N. Y.</td>
<td>255 Pearl St.</td>
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<td>Havilah Edward Hinman, A.B.</td>
<td>Barre</td>
<td>N. Converse Hall</td>
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<td>James Harold Howard</td>
<td>Rutland</td>
<td>N. Converse Hall</td>
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<td>Elbridge Eugene Johnston</td>
<td>New Glasgow, N. S., Canada</td>
<td>267 Pearl St.</td>
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<td>William Gordon MacDonald, B.S.</td>
<td>Wilmington</td>
<td>Delta Psi House</td>
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<td>Frederick Davis McIver, B.S.</td>
<td>Newport</td>
<td>7 N. Union St.</td>
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<td>Arthur Abraham Maislen, A.B.</td>
<td>Weston, Mass.</td>
<td>135 N. Willard St.</td>
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<td>Mary Elisabeth Mandigo, A.B.</td>
<td>Barton</td>
<td>421 Main St.</td>
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<td>Francis James Massucco</td>
<td>Bellowes Falls, Mass.</td>
<td>115 N. Union St.</td>
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<td>Abraham Jacob Meister, Ph.B.</td>
<td>Lawrence, Mass.</td>
<td>140 N. Prospect St.</td>
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<td>Edo Pasetto, B.S.</td>
<td>Barre</td>
<td>20 Mansfield Ave.</td>
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<td>Francis John Pellegrino</td>
<td>Castleton</td>
<td>105 Loomis St.</td>
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<td>Oscar Sylvander Peterson, Jr.</td>
<td>Burlington</td>
<td>457 North St.</td>
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<td>Francis Michael Joseph Powers, B.S.</td>
<td>Gardner, Mass.</td>
<td>115 N. Union St.</td>
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<td>Jesse Albert Rust, Jr.</td>
<td>Burlington</td>
<td>73 Pine St.</td>
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<td>Oscar Schneller</td>
<td>Woodside, L. I., N. Y.</td>
<td>Phi Delta Epsilon House</td>
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<td>Arthur Michael Sullivan, B.S.</td>
<td>Burlington</td>
<td>43 N. Willard St.</td>
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<td>Emory James Swinyer, B.S.</td>
<td>Burlington</td>
<td>46 Charlotte St.</td>
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<td>Christopher Marlowe Terrien</td>
<td>Burlington</td>
<td>32 Hungerford St.</td>
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<td>Raymond Duane Towne</td>
<td>Richmond</td>
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<td>Max Danver Valiquette</td>
<td>Rutland</td>
<td>62 S. Union St.</td>
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<td>Edward Milton Winant, B.S.</td>
<td>Larchmont, N. Y.</td>
<td>62 S. Willard St.</td>
</tr>
</tbody>
</table>

**FIRST YEAR**

**Class of 1937**
Paul Joseph Crehan, A.B.
Merrill Miles Cross

Clarence Frederick Dobson, B.S.

Herman Ehrlich, B.S.

Henry Maurice Farmer, B.S.
Howard Jenkins Farmer, A.B.
Laurence Otto Fasoldt, A.B.
Henry Finks, B.S.
George Francis Fox, A.B.

William Henry Galvin, Jr., B.S.
Robert Glassstone
Nathaniel Gould
John Carl Greenan

Clifford Burr Harwood, B.S.
Henry Simpson Hebb, B.S.
Reginald Kimball House, B.S.

Janith Stewart Kice, A.B.
Morris Kramer, B.S.

Edward Joseph Layden, B.S.
William Douglas Lindsay

Rufus Henry McVetty
Raymond Alfred Martin, B.S.
John Louis Meunier
Frank William Miller
Charles Archie Mitchell, A.B.
Daniel John Moriarty
Bernard Joseph Mulcahy, B.S.

Carl Grandy Otis, B.S.

Andrew Joseph Panettieri
Donald Willard Preston

Eber Resnick, A.B.
Joseph Risman, B.S.
Laurence Lamson Robbins
Bernard Chester Rubino, B.S.

Leo James Schildhaus
Henry*Adolf Schlesinger
John Eldrid Smith
Edmund Benedict Sutton, A.B.

Thomas Bartholomew Tomasi, D.M.D.

Robert Julius Weissman, B.S.
Andrew Stanley Wesoly, B.S.
Harmon Parker Wetherbee, B.S.
Edward Philip White

Roxbury, Mass.
S. Lancaster, Mass.

E. Templeton, Mass.

Mt. Vernon, N. Y.

Sherman Station, Me.
St. Johnsbury
Troy, N. Y.
Portland, Me.
Wallingford, Conn.

Enfield, Mass.

Burlington
Barre
Berlin, N. H.

Rupert
Bradfordton, Me.
Williamstown

Garden City, N. Y.

Winthrop, Mass.

Rutland
Montpelier

Guildhall
Rutland
St. Albans
Pittsfield, Mass.
Haynersville, Me.
Waitsfield
Barre

Burlington

Bridgeport, Conn.

Portland, Me.

Lynn, Mass.

Burlington

Baldwinville, Mass.

Shelburne
Seagoe, N. Y.
Calais, Me.
Waterbury, Conn.

Burlington

Newark, N. J.

New Britain, Conn.

Burlington

Boston, Mass.

20 Brookes Ave.
243 Colchester Ave.

220 Loomis St.

20 N. Williams St.

62 S. Willard St.
234 Pearl St.
89 Ledge Rd.
Phi Delta Epsilon House
121 Loomis St.

220 Loomis St.

85 Oak St.
39 Robinson Ct.
96 Henry St.

M. Converse Hall

234 Pearl St.
72 Buell St.

54 S. Willard St.
140 N. Prospect St.

206 Bank St.
34 Latham C.t.

244 Pearl St.
404 Pearl St.
83 N. Union St.
22 Weston St.
219 Plattsburgh Ave.
62 S. Union St.
53 Brookes Ave.

149 Ferguson Ave.

23 Williams St.
328 North Ave.

96 Henry St.
140 N. Prospect St.
455 Shelburne St.
53 Brookes Ave.

Shelburne

34 Buell St.
96 Henry St.
121 Loomis St.

139 N. Prospect St.

25 Wilson St.
139 N. Prospect St.
45 School St.
404 Pearl St.
COLLEGE OF MEDICINE

INTERNESHIP APPOINTMENTS

GRADUATES, ACADEMIC YEAR, 1932-1933

Catherine Armstrong, Ellis Hospital, Schenectady, N. Y.
Paul Charles Thomas Bacon, Mary Fletcher Hospital, Burlington, Vt.
Philip George Baker, Municipal Hospital, Hartford, Conn.
Joseph Bedros Basralian, Christ Hospital, Jersey City, N. J.
Carlton Francis Bassow, Ellis Hospital, Schenectady, N. Y.
Dwight Joseph Bernstein, New Britain General Hospital, New Britain, Conn.
Frederick Stanford Bird, Kings County Hospital, Brooklyn, N. Y.
Maurice Anthony Bisson, Vassar Brothers Hospital, Poughkeepsie, N. Y.
Mark Edward Branon, Troy General Hospital, Troy, N. Y.
Louis Charles Cartnick, Municipal Hospital, Hartford, Conn.
Benjamin Franklin Clark, Mary Fletcher Hospital, Burlington, Vt.
Albert James Crandall, St. Francis Hospital, Hartford, Conn.
Whitney Randall Doane, Mary Fletcher Hospital, Burlington, Vt.
Benjamin Joseph Elowitch, Elizabeth General Hospital, Elizabeth, N. J.
James Elmer Ferdinand Emmons, Bridgeport Hospital, Bridgeport, Conn.
John Seeley Estabrook, Stamford Hospital, Stamford, Conn.
Benjamin Joseph Franklin, Municipal Hospital, Hartford, Conn.
Solomon Freedman, Mary Hitchcock Memorial Hospital, Hanover, N. H.
Nathaniel Edward Gourson, Gouverneur Hospital, New York, N. Y.
Wayne Griffith, New Britain General Hospital, New Britain, Conn.
Clair Emmett Hessler, Waterbury Hospital, Waterbury, Conn.
Bruno Boleslaw Jastremski, St. Vincent's Hospital, New York, N. Y.
Richard F. Mascola, Jr., St. Peter's Hospital, Brooklyn, N. Y.
William Peter Mayrudes, General Hospital of Syracuse, Syracuse, N. Y.
Anthony Joseph Perrotta, Monmouth Memorial Hospital, Long Branch, N. J.
David Bernard Pitman, Sydenham Hospital, New York, N. Y.
Hagar Ramm, Springfield Hospital, Springfield, Mass.
Watson Frank Rogers, Vassar Brothers Hospital, Poughkeepsie, N. Y.
James Scutakes, Passaic General Hospital, Passaic, N. J.
Kenneth Rubley Stephens, Stamford Hospital, Stamford, Conn.
Waldemar Charles August Sternberg, Worcester City Hospital, Worcester, Mass.
John Martin Thomas, Jr., Mary Fletcher Hospital, Burlington, Vt.
Edwin Charles Thorn, Stamford Hospital, Stamford, Conn.
John Joseph Tonini, Waterbury Hospital, Waterbury, Conn.
Alice Elizabeth Tyndall, St. Mary Hospital, Hoboken, N. J.
Lewell Seth Walker, Jr., Mary Fletcher Hospital, Burlington, Vt.

GRADUATES—1934

DOCTORS OF MEDICINE

Richard Allison Backus, Jr., B.S. ........................................ South Orange, N. J.
Leonard Macy Berry, B.S. .................................................. Plainville, Conn.
Edward Sumner Brewster, A.B. ............................................. New York City
Donald Ellsworth Coburn, B.S., cum laude ............................. Burlington
John Lee Cogland, B.S. ...................................................... Hardwick
Eugene Joseph Desautels, B.S. ............................................. Burlington
Reginald Fuller DeWitt, B.S. ................................................ Shoreham
William Allen Donnelly, B.S. .............................................. Atlantic City, N. J.
Burton Lawton Emerson, B.S. .............................................. Burlington
Alfred Leo Frechette, cum laude .......................................... Berlin, N. H.
Emilio Giannarelli .......................................................... Barre
Howard Theodore Guare ................................................... Montpelier
Thomas Joseph Halligan B.S. .............................................. Montpelier
Harlan Eugene Karr, B.S. ................................................... Northfield
HONORS IN MEDICINE—1934

CUM LAUDE

Donald Ellsworth Coburn, B.S.
Benjamin Singerman, B.S.
Arthur Bradford Sharples, B.S.
Aldo Leani
Alfred Leo Frechette

CARBEE PRIZE

For greatest proficiency in the subject of Obstetrics

Eugene Joseph Desautels, B.S.
Alfred Leo Frechette

WOODBURY PRIZES IN MEDICINE

For greatest proficiency in Clinical Work in senior year

Philip Reynolds Ransom, B.S.

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

Edo Pasetto, B.S.

THE SURGEON GENERAL’S PRIZE

Richard Allison Backus, Jr., B.S.

FIRST LIEUTENANTS, MEDICAL RESERVE, UNITED STATES ARMY

Richard Allison Backus, Jr. ........................................ South Orange, N. J.
Donald Ellsworth Coburn ........................................... Hardwick
John Lee Cogland .................................................. Burke, N. Y.
Eugene Joseph Desautels ........................................... Burlington
Reginald Fuller DeWitt ............................................. Shoreham
William Allen Donnelly ........................................... Atlantic City, N. J.
Burton Lawton Emerson ............................................. Syracuse, N. Y.
Alfred Leo Frechette ................................................ Montpelier
Thomas Joseph Halligan ........................................... Berlin, N. H.

* Deceased July 3, 1934.
MEDICAL FRATERNITIES AND SOCIETIES

Beta Pi, Delta Mu, Chapter of Nu Sigma Nu 49 N. Prospect St.  
(Founded 1880)

Alpha Chapter of Phi Chi 94 Church St.  
(Founded at University of Vermont, 1889)

Delta Chapter, Alpha Kappa Kappa 158 Bank St.

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

Cap and Skull  
(Senior Medical Society, Founded 1910)

Phi Delta Epsilon 28 Wilson St.  
(Founded 1930)

Premedic Club  
(For students in the College of Arts and Sciences who are preparing to study medicine)

THE OSLER CLINICAL SOCIETY

The Osler Clinical Society is an organization whose membership comprises all students in the College of Medicine. The purpose of the society is to provide extra-mural lectures, discussions, etc., on medical subjects by physicians who have distinguished themselves in various branches of medical science. The list of lecturers during the past several years includes, among others, Dr. H. A. Christian of Harvard University, Dr. W. C. Alvarez of the Mayo Clinic, Dr. P. D. Woodbridge of the Lahey Clinic and Dr. E. S. Welles of Saranac Lake, N. Y.
OFFICERS OF THE U. V. M. MEDICAL ALUMNI ASSOCIATION, 1934

President—Dr. Frank E. Farmer, ’99, St. Johnsbury, Vt.
Secretary-Treasurer—Dr. Peter P. Lawlor, ’20, Burlington, Vt.

VERMONT DEPARTMENT OF PUBLIC HEALTH

State Board of Health: William G. Ricker, M.D., St. Johnsbury, Chairman; Claude M. Campbell, Manchester Center; Charles G. Abell, M.D., Enosburg Falls; Charles F. Dalton, M.D., Secretary and Executive Officer, Burlington; C. F. Whitney, M.D., Director of Laboratory; F. S. Kent, M.D., Director Communicable Disease Division; C. P. Moat, B.S., Sanitary Chemist; H. W. Slocum, A.B., Director Tuberculosis Division; Lillian E. Kron, R.N., Poliomyelitis After-care; Nellie M. Jones, R.N., Maternity and Infancy.

WORK OF THE STATE BOARD

The State Board of Health is responsible for the public health work of the State, including the control of communicable diseases, supervision of food and milk supplies, supervision of public water supplies, and sewage disposal, sanitation of schoolhouses and public buildings, abatement of nuisances, educational work against tuberculosis, control of venereal diseases, research and after-care of infantile paralysis cases, and registration of vital statistics. New and commodious offices have been provided in a building owned by the University of Vermont and adjacent to the College of Medicine.

It maintains a laboratory of hygiene at Burlington in the same building where its own work is done, and employs a sanitary engineer and inspector.
The State Board of Health is intimately connected with the College of Medicine of the University, the Secretary, Doctor Dalton, being Professor of Hygiene and Preventive Medicine, while the Director of the Laboratory of Hygiene, Doctor Whitney, is Professor of Toxicology and Physiological Chemistry, and C. P. Moat, Sanitary Chemist of the Board, is Assistant Professor of Sanitary Chemistry in the College.