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UNIVERSITY OF VERMONT, COLLEGE OF MEDICINE

VOLUME XXVIII

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THE VERMONT BULLETIN

JULY, 1931

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The University of Vermont

and

State Agricultural College



The College of Medicine Number

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CALENDAR

1931-1932

Examinations for Advancement in Course and for

- Advanced StandingSeptember 12, 14, and 15
Opening AddressWednesday, September 16, 10.00 a.m.
Organization of ClassesThursday, September 17
Regular Exercises beginFriday, September 18, 7.30 a.m.
Registration endsSaturday, September 26
Armistice DayWednesday, November 11
Thanksgiving DayThursday, November 26
Christmas RecessTuesday, December 22, 1931, 7.30 a.m.
to Tuesday, January 5, 1932, 7.30 a.m.
Class Work resumedTuesday, January 5, 7.30 a.m.
Mid-year ExaminationsMonday, January 25
to Saturday, January 30
Enrollment for Second SemesterSaturday, January 30
Second Semester beginsMonday, February 1, 7.30 a.m.
Easter RecessSaturday, March 26, 7.30 a.m.
to Wednesday, April 6, 7.30 a.m.
Founder's DaySaturday, April 30
Memorial DayMonday, May 30
Final ExaminationsMonday, June 6 to Thursday, June 16
Events of Commencement Week ..Friday, June 17 to Monday, June 20

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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 in a modified form was introduced tentatively 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 fire-proof.

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, De Goesbriand 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; and the State School at Brandon.

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 intra-mural group of institutions, two weeks of intensive instruction in each of five institutions of the extra-mural 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. Both Junior and 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; ample material, and each institution, being under the personal direction of a member of the teaching staff, permits the method of teaching that is of the greatest practical value.

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, and the Washington County Hospital for advanced cases, at Barre, 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 five thousand volumes, and is located on the second floor of the Medical building. 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; the Sanitary Chemist of the former institution is Instructor in Chemistry in the department of Hygiene, and the Professor of Sanitary Engineering is Dean of the College of Engineering.

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
	<i>Average Range</i>
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

*Payable annually in advance.

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 University Store. In 1930 the price of this standard physician's microscope was \$137.00.

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 text books 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.

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 fifty 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 University of Vermont 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 SHOWING STUDIES OF THE TWO-YEAR PREMEDICAL CURRICULUM

FIRST YEAR		SECOND YEAR	
	A B		A B
English 1	2 2	Physics 1	5 5
French or German	3 3	Chemistry 9	2 2
Chemistry 1	5 5	Chemistry 10	1 1
Mathematics 1	4 4	French or German	3 3
Botany 1 and Zoology 1	4 4	Cytology and Embryology	4 4
Military Science	2 2	English 2	2 2
Physical Education	1 1	Military Science	2 2
		Physical Education	1 1

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 department of Commerce and Economics, or in the Colleges of Engineering and Agriculture.

TABLE SHOWING STUDIES TAKEN IN THE ARTS COLLEGE IN THE SEVEN-YEAR CURRICULUM

FIRST YEAR		A	B	SECOND YEAR		A	B
English 1	.....	2	2	English 2	.....	3	3
*French or German	.....	3	3	French or German	.....	3	3
Chemistry 1	.....	5	5	Mathematics 2	.....	3	3
Mathematics 1	.....	4	4	Physics 1	.....	5	5
†Botany 2 or Zoology 2	.....	4	4	‡Zoology 2 or Botany 2	.....	4	4
Military Science	.....	2	2	Military Science	.....	2	2
Physical Education	.....	1	1	Physical Education	.....	1	1
THIRD YEAR							
		A	B				
Cytology and Embryology	...	4	4				
Chemistry 9	.....	2	2				
Chemistry 10	.....	1	1				
Psychology or Philosophy 1, 2	...	3	3				
English 8	.....	1	1				
Two electives	.....	6	6				

*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 the premedical courses, it has become practically impossible to admit to the College of Medicine students who have had premedical work elsewhere.

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 Pre-medical 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 of 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.

(5) That the applicant is a resident of the State of Vermont.

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 per cent. 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 per cent 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 per cent 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.

Students are expected to serve a one-year internship in some recognized hospital 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.

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
----- *Assistant Professor of Histology and Biology.*
JOHN ABRAHAM JENNEY, M.D. *Assistant Professor of Anatomy*
CHESTER ALBERT NEWHALL, A.B., M.D. *Instructor in Anatomy*
WALFORD TUPPER REES, M.D. *Instructor in Surgical Anatomy*

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. *Twenty-two hours.*
- b Recitations.
- c Laboratory work. Study of the microscopic anatomy of the fundamental tissues and of the organs, mainly human material. Practice in the preparation of tissue for microscopic examinations. *Eighty-eight hours.*

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

- a Lectures. Maturation. Fertilization. Cleavage. The development of tissues and organs. *Ten 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*
 JOHN ABRAHAM JENNEY, B.S., M.D. *Assistant Professor of Anatomy*
 CHESTER ALBERT NEWHALL, A.B., M.D. *Instructor in Anatomy*
 WALFORD TUPPER REES, M.D. *Instructor in Surgical 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, 16 hours; second year, 16 hours.*
 - b Recitations. *First year, 16 hours; second year, 32 hours.*
 - c Laboratory work. *First year, 30½ hours; second year, 6½ hours.*
- First year.—Osteology.—Dissection. Demonstration of specimens. Each student is required to dissect one-half of the human body.

Second year.—Anatomy of the central nervous system, dissection and demonstration. Dissection of special regions. General review. Correlation of gross and microscopic anatomy.

Applied Anatomy.—Third Year.—Lectures and demonstrations. *Sixteen hours.* Correlation of anatomy and clinical subjects.

Text-books—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*

First and Second Years.—

- a Recitations. *First year, 6½ hours; second year, 6½ hours.*
- b Demonstrations and laboratory work. *First year, 6½ hours; second year, 32 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.

Text-book—Howell's *Text-book 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.*

THOMAS BRONSON PARKS, A.B., Ph.D. *Instructor in 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.

The text-books now in use are Bodansky's *Biochemistry*, Morse's *Applied Biochemistry* and Matthews' *Physiological Chemistry*.

THE DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

DAVID MARVIN, M.D. *Professor of Pharmacology and Therapeutics.*

ANTHONY ALONGE, A.M. *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.*

Text-books.—Sollmann, *Materia Medica, 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.*

FREDERICK ELLSWORTH CLARK, M.D....*Associate Professor of Pathology.*

WENDELL EVERETT JAMES, A.B.....*Assistant Professor of Bacteriology and Clinical Pathology.*

Dispensary Work.—

In sections first semester.

Laboratory and Clinics. *Sixty-four hours.*

Text-books—Conybeare's *Text-book 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.*
- ELMER WATERS PIKE, M.D. *Instructor in Clinical Medicine.*
- ROBERT ALEXANDER COSTINE, B.S., M.D. . . . *Instructor in Clinical Medicine.*
- HIRAM UPTON, B.S., M.D. *Clinical Instructor in Clinical Medicine.*

Fourth Year

Clinical Medicine is given throughout the Senior year. The course includes daily "Ward Walks" under an instructor or with an instructor and the chief; daily attendance upon the Dispensary, or visits upon the sick at their homes or at various institutions under supervision.

Text-book—*Text-book of Medicine*, Conybeare.

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.*
- WALFORD TUPPER REES, B.S., M.D. *Assistant Professor of Surgery.*
- BENJAMIN DYER ADAMS, M.D., F.A.C.S. *Assistant Professor of
Surgery.*
- JOHN HAZEN DODDS, M.D. *Instructor in Anesthetization.*

Second Year**Recitations.—**

Principles of surgery. *Sixty-four hours.*

Practical Surgery.—

Bandaging, use of splints and other surgical appliances.

Work with plaster-of-Paris. Taught in sections. *Ten hours per section.*

Third Year

General and regional surgery. *Ninety-six hours.* Fractures and dislocations. *Thirty-two hours.*

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.

Text-books—*General and Regional*, DaCosta, Keen, Babcock, Homans; *Operative*, Binnie, Horsley; *Fractures and Dislocations*, Scudder, Cotton, Stimson.

II. CLINICAL SURGERY

GEORGE MILLAR SABIN, B.S., M.D., F.A.C.S.....*Professor of Clinical
Surgery*

WALFORD TUPPER REES, M.D.....*Assistant Professor of 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.

Text-books—*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..*Assistant Professor of Obstetrics.*
- SAM SPARHAWK, A.B., M.D.*Clinical Instructor in Medicine and Obstetrics.*

Third Year

Lectures and Recitations.—

Anatomy of female pelvis and reproductive organs. Ovulation, menstruation, pregnancy, normal labor and its management. *Sixty-four hours.*

Practical Obstetrics.—

Abdominal palpation and auscultation. Pelvimetry. Operative Obstetrics. Demonstration of mechanism of labor. *Twenty hours.*

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.

Text-book—Williams' *Obstetrics*. References—Hirst's *Obstetrics*, DeLee'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

Lecture and Demonstrations.—

Epidemiology, diagnosis and control of communicable diseases and other problems of preventive medicine. *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..*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, one hour each week. Practical demonstrations of radium therapy. Section work in wards. History taking, examination, diagnosis, treatment. Complete history of each case required. *Thirty-two 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.

Text-book—Crossen's *Diseases of Women*. References—Hirst's *Diseases of Women*, Polak's *Manual of Gynecology*, Graves' *Gynecology*.

NEUROLOGY

- FREDERIC WILLIAM SEARS, A.B., M.D.....*Professor of 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.*

Text-books—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.*

Mental Hygiene, Doctor Bonner. *Ten 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 text-book 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.

DISEASES OF THE EYE, EAR, NOSE AND THROAT

- EMMUS GEORGE TWITCHELL, A.B., M.D....*Assistant Professor of Diseases of Eye, Ear, Nose and Throat.*
- KARL CORNELIUS MCHAHON, B.S., M.D....*Clinical Instructor in Diseases of Eye, Ear, Nose and Throat.*

Third Year.—

Lectures and recitations. *Sixty-four hours.*

Fourth Year.—

Clinics. Two each week during first semester. *Sixty-four hours.*

Text-books.—*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...*Assistant Professor of Urology.*
- SETH HUSTIS MARTIN, M.D.....*Instructor in Venereal Diseases.*

Fourth Year.—

Lectures and recitations on genito-urinary diseases and dispensary work. Clinic once a week; ward work and dispensary work throughout the year. *Twenty-four hours.*

Text-books—Keyes, Lowsley and Kirwin, Watson and Cunningham.

DERMATOLOGY

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

Third Year.—

Lectures with projectoscope and lantern slide illustrations.

Clinics. Demonstrations of all the more common skin diseases. *Forty-eight hours.*

Text-books—Schalek, Stelwagon, Sutton, Schamberg, Ormsby.

ORTHOPEDIC SURGERY

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

Fourth Year.—

Clinics, diagnostic and operative, hospital amphitheatre. Operations and mechanical treatment of deformities. Motor saw technique. *Thirty hours.*

Text-book—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.*

Text-book—Underhill's *Toxicology.*

MEDICO-MILITARY SCIENCE

CHESTER RAYMOND HAIG, A.B., M.D., Major Medical Corps, U. S. A.

Professor of Medico-Military Science.

Lectures.—The lectures are divided into two courses, each course consisting of two series of thirty lectures each and covering a period of two years. Instruction is graded and conforms to the outline laid down for medical units of the Reserve Officers Training Corps.

Course 1.—For first and second year students.

Course 2.—For third and fourth year students.

The period required for lectures on the schedule is one hour per week.

ROENTGENOLOGY

NATHAN RENWICK CALDWELL, M.D.....*Instructor in Roentgenology*

Second Year.—

The course consists of lectures in Physics of X-ray and X-ray apparatus, interpretation of films, and therapy, superficial and deep. Practical demonstration with fluoroscope of heart and lungs. *Sixteen hours.*

TROPICAL MEDICINE

CHESTER RAYMOND HAIG, A.B., M.D., Major 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 book—Manson's *Tropical Diseases.*

MEDICAL CORPS UNIT OF THE RESERVE OFFICERS' TRAINING CORPS

A medical unit of the Reserve Officers' Training Corps is in operation in connection with the College of Medicine and is in charge of a Medical Officer of the Army, who has an office in the Medical Building.

The instruction in Military Medicine is divided into two courses, basic and advanced, and each course covers a period of two years with a minimum of thirty hour lectures per year.

The basic course is designed for Freshmen and Sophomores and consists of instruction in organization, administration and tactical employment of Medical Department and other units with such accessory subjects, as will prepare the student for a better appreciation of the advanced course which is largely preventive medicine.

A summer camp is held in connection with the advanced course at Carlisle, Pa., and all students who have taken the basic course are qualified to attend. The latest methods and appliances in use in field sanitation are demonstrated here. Camp may be attended after the Sophomore, Junior or Senior years.

The Government allows certain financial benefits to those who pursue the advanced course after passing the basic in a satisfactory manner. At present this amounts approximately to one hundred dollars a year, exclusive of travel pay to and from camp and while there. In addition a student who has demonstrated his ability is entitled to a commission in the Medical Reserve Corps providing he so elects.

REGISTER—1930-1931

FOURTH YEAR

Class of 1931

Roger Hubbard Allbee, B.S.	<i>Springfield</i>	Sigma Nu Lodge
Roland Sigurd Aronson, B.S.	<i>Rutland</i>	82 Hungerford St.
Clyde Lynwood Chaffee, B.S.	<i>Richford</i>	31 S. Prospect St.
William Bailey Clapp, B.S.	<i>N. Grafton, Mass.</i>	25 Russell St.
John Joseph Curran, B.S.	<i>Florence, Mass.</i>	Nu Sigma Nu House
Lyman Chandler Duryea	<i>Burlington</i>	200 Pearl St.
Stanton Seely Eddy, Jr., B.S.	<i>Middlebury</i>	Nu Sigma Nu House
Arthur Gladstone, B.S.	<i>Burlington</i>	31 School St.
George Vaughn Goodwin, B.S.	<i>Montpelier</i>	Nu Sigma Nu House
Francis Leach Herrick, B.S.	<i>Pawlet</i>	Nu Sigma Nu House
Carlisle Tyson Hewes	<i>Groton, Conn.</i>	Phi Delta Theta House
Samuel William Howard	<i>Rutland</i>	Fanny Allen Hospital
Richard Milton Ireland, B.S.	<i>Burlington</i>	Sigma Nu Lodge
Leo James Kennedy, A.B.	<i>Burlington</i>	286 Pearl St.
Paul Joseph Lawrence	<i>Burlington</i>	76 N. Union St.
Urho Robert Merikangas, B.S.	<i>Arlington</i>	31 S. Prospect St.
Willard Jackson Morse	<i>Middletown, Conn.</i>	Nu Sigma Nu House
John Richard Pavia	<i>Newark, N. J.</i>	63 King St.
Elizabeth Gertrude Pingree, B.S.	<i>White River Junction</i>	91 S. Willard St.
Clifford Winfield Quad, B.S.	<i>W. Orange, N. J.</i>	31 S. Prospect St.
Joseph Charles Quatrano	<i>New Haven, Conn.</i>	Sigma Nu Lodge
Irving Rudolph, B.S.	<i>New York, N. Y.</i>	35 Wilson St.
Charles Joel Sage, A.M.	<i>New York, N. Y.</i>	88 Buell St.
Francis Harry Clark Schurman, B.S.	<i>Springville, N. Y.</i>	Fanny Allen Hospital
Richard Henry Taft, B.S.	<i>Ticonderoga, N. Y.</i>	262 Pearl St.
Nehemiah Alvarado Towne, B.S.	<i>Swanton</i>	349 Pearl St.
Keith Frank Truax, B.S.	<i>Burlington</i>	45 Clarke St.
George Chandler Tully, B.S.	<i>Orange, N. J.</i>	Nu Sigma Nu House
Arthur Charles Unsworth, B.S.	<i>Burlington</i>	De Goesbriand Hospital
Philip Harold Waldman	<i>New York, N. Y.</i>	88 Buell St.
Francis Alton Winchenbach	<i>Framingham, Mass.</i>	Nu Sigma Nu House

THIRD YEAR

Class of 1932

Ellsworth Lyman Amidon, B.S.	<i>Barnet</i>	Mary Fletcher Hospital
Armand Charles J. Archambault, A.B.	<i>Barre</i>	47 Isham St.
Lorraine Elsinore Asselin	<i>Burlington</i>	409 S. Prospect St.
George Joseph Bertrand	<i>Barre</i>	33 N. Williams St.
Mark Edward Branon	<i>Burlington</i>	272 Pearl St.
Peter Vasilios Brikiatis	<i>St. Johnsbury</i>	94 Loomis St.

Frederic Milton Crump	<i>Gloversville, N. Y.</i>	262 Pearl St.
Thomas Riley Cummins	<i>Ticonderoga, N. Y.</i>	Nu Sigma Nu House
Robinson Harry Dorion	<i>Rutland</i>	256 Pearl St.
Clarence Batchelder Foster, B.S.	<i>Underhill</i>	40 Booth St.
Merrill Frank Gardner	<i>S. Dartmouth, Mass.</i>	240 Loomis St.
Philip Anthony Goddard	<i>Morrisville</i>	20 Brookes Ave.
Morris Goldman, B.S.	<i>Brooklyn, N. Y.</i>	111 Loomis St.
Edwin Matthew Goyette, B.S.	<i>Burlington</i>	205 Church St.
Woodhull Stanton Hall	<i>Bennington</i>	101 Ledge Rd.
Paul Peter Harasimowicz	<i>Gardner, Mass.</i>	6 Bradley St.
Charles Elmer Harwood, B.S.	<i>Dorset</i>	252 Colchester Ave.
Albert George Mackay, B.S.	<i>Peacham</i>	Nu Sigma Nu House
James Patrick Mahoney	<i>Burlington</i>	288 Maple St.
Paul Clarence Marston, A.B.	<i>E. Brookfield, Me.</i>	47 Isham St.
Harold Medivetsky, B.S.	<i>Burlington</i>	342 N. Winooski Ave.
Joseph Albert Menousek	<i>New Britain, Conn.</i>	Nu Sigma Nu House
Charles Henry Morhouse, M.S.	<i>Ticonderoga, N. Y.</i>	Nu Sigma Nu House
Francis John O'Neill, B.S.	<i>St. Albans</i>	20 Brookes Ave.
Charles Samuel Paine, B.S.	<i>S. Royalton</i>	Mary Fletcher Hospital
Joseph Gabriel Pekala	<i>Amherst, Mass.</i>	33 N. Williams St.
Abraham David Poverman, B.S.	<i>Hartford, Conn.</i>	135 N. Willard St.
Louis Frederic Rogel	<i>Brooklyn, N. Y.</i>	61 N. Willard St.
Edward Roth, B.S.	<i>Brooklyn, N. Y.</i>	114 Buell St.
Edward Joseph Roy	<i>Indian Orchard, Mass.</i>	349 Pearl St.
Leighton Albert Sanders, B.S.	<i>Burlington</i>	31 Orchard Ter.
Harold Israel Schechtman	<i>New Britain, Conn.</i>	52 Hickok Pl.
Theresa Schneller, B.S.	<i>Woodside, L. I., N. Y.</i>	72 Greene St.
Gordon Burgess Smith	<i>Rutland</i>	256 Pearl St.
Orman Alvaro Tucker, B.S.	<i>Waitsfield</i>	Nu Sigma Nu House
Samuel Morton Waterman, B.S.	<i>Burlington</i>	61 Hyde St.
Harvey Brookins Whiting	<i>Burlington</i>	65 Hungerford St.
Harry Mackay Wilson, B.S.	<i>Berlin, N. H.</i>	229 Loomis St.

SECOND YEAR

Class of 1933

Catherine Armstrong, A.B.	<i>Bennington</i>	91 S. Willard St.
Paul Charles Thomas Bacon, B.S.	<i>Burlington</i>	39 Allen St.
Philip George Baker, B.S.	<i>Burlington</i>	234 Loomis St.
Joseph Bedros Basralian	<i>Burlington</i>	140 N. Prospect St.
Carlton Francis Bassow	<i>Athol, Mass.</i>	262 Pearl St.
Dwight Joseph Bernstein, B.S.	<i>Hartford, Conn.</i>	Tau Epsilon Phi House
Frederick Stanford Bird	<i>W. Haven, Conn.</i>	20 Brookes Ave.
Maurice Anthony Bisson	<i>Barre</i>	28 Williams St.
Louis Charles Cartnick	<i>Clifton, N. J.</i>	146 N. Prospect St.
Benjamin Franklin Clark, B.S.	<i>Groton</i>	Nu Sigma Nu House
Albert James Crandall, B.S.	<i>Essex Junction</i>	Essex Junction
Whitney Randall Doane, B.S.	<i>Springfield</i>	Nu Sigma Nu House
Rudolph Joseph Dowhan	<i>Burlington</i>	222 Maple St.

Benjamin Joseph Elowitch, B.S. James Elmer Ferdinand Emmons John Seeley Estabrook, B.S.	<i>Bayonne, N. J.</i> <i>Bridgeport, Conn.</i> <i>Brandon</i>	Tau Epsilon Phi House 35 Brookes Ave. 349 Pearl St.
Aldo Gino Franceschi Solomon Freedman	<i>Rutland</i> <i>Roxbury, Mass.</i>	44 Brookes Ave. 61 N. Willard St.
Edward Nathaniel Gourson Wayne Griffith	<i>New Britain, Conn.</i> <i>Springfield</i>	Tau Epsilon Phi House 258 Pearl St.
Clair Emmett Hesseltine	<i>Manchester, N. H.</i>	146 N. Prospect St.
*Cornelius Wood Irons, B.S.	<i>Middlebury</i>	240 Loomis St.
Bruno Boleslaw Jastremski	<i>Brooklyn, N. Y.</i>	69 N. Prospect St.
Richard F. Mascola, Jr.	<i>Howard Beach, L. I., N. Y.</i>	69 N. Prospect St.
William Peter Mavraides	<i>Burlington</i>	135 St. Paul St.
Anthony Joseph Perrotta David Bernard Pitman	<i>Burlington</i> <i>New York, N. Y.</i>	12 Perrotta Pl. 35 Wilson St.
Carl Henry Ramm, B.S. Watson Frank Rogers, B.S.	<i>New Britain, Conn.</i> <i>Vergennes</i>	Nu Sigma Nu House 349 Pearl St.
James Scutakes, B.S. Kenneth Rubley Stephens, B.S. Waldemar Charles August Sternbergh, B.S.	<i>Burlington</i> <i>White River Junction</i> <i>Cleveland, Ohio</i>	31 Elmwood Ave. 101 Ledge Rd. Mary Fletcher Hospital
Lois Ellene Taylor, B.S. John Martin Thomas, Jr., B.S. Edwin Charles Thorn John Joseph Tomasi, B.S. Alice Elizabeth Tyndall Martha Winifred Tyndall	<i>E. Poutney</i> <i>Mendon</i> <i>Deerfield, Mass.</i> <i>Barre</i> <i>Burlington</i> <i>Burlington</i>	318 Pearl St. 395 College St. 349 Pearl St. 307 S. Prospect St. 62 East Ave. 62 East Ave.
Lewell Seth Walker, Jr., B.S.	<i>Burlington</i>	*395 College St.

FIRST YEAR

Class of 1934

Irwin Allan Agel	<i>Burlington</i>	401 North St.
Richard Allison Backus, Jr. Gennaro Basilicato Leonard Macy Berry John Frank Buglino	<i>S. Orange, N. J.</i> <i>Brooklyn, N. Y.</i> <i>Plainville, Conn.</i> <i>Brooklyn, N. Y.</i>	173 Loomis St. 243 Colchester Ave. 61 N. Willard St. 69 N. Prospect St.
Francis Edward Cannon, A.B. Donald Ellsworth Coburn John Lee Cogland	<i>Rutland</i> <i>Hardwick</i> <i>Burke, N. Y.</i>	10 S. Willard St. 60 N. Prospect St. 322 Pearl St.
Eugene Joseph Desautels Reginald Fuller DeWitt William Allen Donnelly, B.S.	<i>Burlington</i> <i>Shoreham</i> <i>Atlantic City, N. J.</i>	52 N. Champlain St. 106 Colchester Ave. 404 Pearl St.
Burton Lawton Emerson, Jr.	<i>Burlington</i>	60 N. Prospect St.
Winthrop Maillot Flagg	<i>N. Attleboro, Mass.</i>	60 N. Prospect St.

* Deceased.

Emilio Giannarelli	<i>Barre</i>	114 Loomis St.
Howard Theodore Guare	<i>Montpelier</i>	404 Pearl St.
Thomas Joseph Halligan	<i>Montpelier</i>	258 Pearl St.
Harlan Eugene Karr	<i>Northfield</i>	N. Converse Hall
† Chester Cody Kaufman	<i>Plainville, Conn.</i>	Tau Epsilon Phi House
Aldo Leani	<i>Barre</i>	307 S. Prospect St.
Ruth Irene Leonard, B.S.	<i>Plainfield</i>	154 Summit St.
Eugene Harvey Luck	<i>Burlington</i>	91 N. Winooski Ave.
John Frederic Lynch, Jr.	<i>Burlington</i>	7 Greene St.
Thomas Smith McLean, Jr.	<i>Bridgeport, Conn.</i>	349 Pearl St.
Christie Ellen McLeod	<i>S. Barre</i>	421 Main St.
† Jeremiah Irving Moriarty, B.S.	<i>Burlington</i>	25 Wilson St.
Thor Olson	<i>Brattleboro</i>	173 Loomis St.
Duncan William Persons	<i>Hudson, Mass.</i>	349 Pearl St.
Philip Reynolds Ransom, B.S.	<i>Castleton</i>	147 N. Prospect St.
James Joseph Reedy	<i>Rutland</i>	28 Williams St.
Flora Marie Remillard	<i>Saco, Me.</i>	333 S. Prospect St.
Raymond Daniel Romanos	<i>Barre</i>	28 Williams St.
Abraham Philander Rosenfeld	<i>Bristol, Conn.</i>	88 Buell St.
Paul Green Rowand	<i>New Canaan, Conn.</i>	173 Loomis St.
John Louis Saia	<i>Barre</i>	307 S. Prospect St.
Boyd Parker Schurman	<i>Springville, N. Y.</i>	147 N. Prospect St.
Anthony Theodore Scutakes	<i>Burlington</i>	31 Elmwood Ave.
Karl Fader Searles	<i>St. Johnsbury</i>	17 Wilson St.
Solam Segel	<i>Gardner, Mass.</i>	88 Buell St.
Arthur Sharples	<i>New Bedford, Mass.</i>	60 N. Prospect St.
Benjamin Singerman, B.S.	<i>Burlington</i>	27 Loomis St.
Alex Solomon	<i>Burlington</i>	108 Loomis St.
Ralph Chesley Stevens, Ph.B.	<i>Burlington</i>	173 Loomis St.
William Francis Stuart	<i>Burlington</i>	111 Bank St.
Paul Colby Willard, B.S.	<i>Passumpsic</i>	29 S. Willard St.

† Attended first semester only.

GRADUATES, ACADEMIC YEAR, 1930-1931

DOCTORS OF MEDICINE

Roger Hubbard Allbee, B.S.	Springfield
Roland Sigurd Aronson, B.S.	Rutland
Clyde Lynwood Chaffee, B.S.	Richford
William Bailey Clapp, B.S.	N. Grafton, Mass.
John Joseph Curran, B.S.	Northampton, Mass.
Lyman Chandler Duryea	Burlington
Stanton Seely Eddy, Jr., B.S., <i>cum laude</i>	Middlebury
Arthur Gladstone, B.S.	Burlington
George Vaughn Goodwin, B.S.	Montpelier
Francis Leach Herrick, B.S.	Pawlet
Carlisle Tyson Hewes	Groton, Conn.
Samuel William Howard	Rutland
Richard Milton Ireland, B.S.	Burlington
Leo James Kennedy, A.B.	Burlington
Paul Joseph Lawrence	Burlington
Urho Robert Merikangas, B.S., <i>cum laude</i>	Arlington
Willard Jackson Morse	Middletown, Conn.
John Richard Pavia	Newark, N. J.
Elizabeth Gertrude Pingree, B.S.	White River Junction
Clifford Winfield Quad, B.S.	W. Orange, N. J.
Joseph Charles Quatrano	New Haven, Conn.
Irving Rudolph, B.S., <i>cum laude</i>	New York, N. Y.
Charles Joel Sage, A.M., <i>cum laude</i>	New York, N. Y.
Francis Harry Clark Schurman, B.S.	Springville, N. Y.
Richard Henry Taft, B.S.	Ticonderoga, N. Y.
Nehemiah Alvarado Towne, B.S., <i>cum laude</i>	Swanton
Keith Frank Truax, B.S.	Burlington
George Chandler Tully, B.S.	Orange, N. J.
Arthur Charles Unsworth, B.S.	Burlington
Philip Harold Waldman	New York, N. Y.
Francis Alton Winchenbach	Framingham, Mass.

HONORS IN MEDICINE—1931

CUM LAUDE

Nehemiah Alvarado Towne
 Urho Robert Merikangas
 Irving Rudolph
 Charles Joel Sage
 Stanton Seely Eddy, Jr.

CARBEE PRIZE

In memory of Moses Dyer Carbee, M.D., '73

For greatest proficiency in the subject of Obstetrics

Stanton Seely Eddy, Jr.
 Samuel William Howard

WOODBURY PRIZES IN MEDICINE

For greatest proficiency in Clinical Work in senior year

Urho Robert Merikangas

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

Paul Charles Thomas Bacon

THE UNIVERSITY OF VERMONT

THE SURGEON GENERAL'S PRIZE

Urho Robert Merikangas

AWARDED INTERNESHIPS, WALTER REED GENERAL HOSPITAL,
WASHINGTON, D. C.Roger Hubbard Allbee
Urho Robert Merikangas

FIRST LIEUTENANTS, MEDICAL RESERVE, UNITED STATES ARMY

Roger Hubbard Allbee	<i>Springfield</i>
Clyde Lynwood Chaffee	<i>Richford</i>
Lyman Chandler Duryea	<i>Burlington</i>
George Vaughn Goodwin	<i>Montpelier</i>
Francis Leach Herrick	<i>Pawlet</i>
Samuel William Howard	<i>Rutland</i>
Leo James Kennedy	<i>Burlington</i>
Paul Joseph Lawrence	<i>Burlington</i>
Urho Robert Merikangas	<i>Arlington</i>
Clifford Winfield Quad	<i>W. Orange, N. J.</i>
Harry Clarke Schurman	<i>Springville, N. Y.</i>
Keith Frank Truax	<i>Burlington</i>
Arthur Charles Unsworth	<i>Burlington</i>

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 4 N. Winooski Ave.
- Alpha Gamma Sigma
(For Women, Founded at University of Vermont, 1924)
- Cap and Skull
(Senior Medical Society, Founded 1910)
- Phi Delta Epsilon
(Founded 1930)
- Premedic Club
(Eligible for students in the College of Arts and Sciences who are
preparing to study medicine)

OFFICERS OF THE U. V. M. MEDICAL ALUMNI
ASSOCIATION, 1931*President*—Dr. John M. Wheeler, '03, New York, N. Y.*Vice-Presidents*—Drs. Frank J. Lawliss, '23, Richford, Vt.; H. H. Johnson, '06, St. Albans, Vt.; William McIvor, '12, Worcester, Mass.; Roland McSweeney, '22, Brattleboro, Vt.; Charles Branch, '24, Boston, Mass.; Edward Hines, '19, Rutland, Vt.

Secretary-Treasurer—Dr. P. P. Lawlor, '20, Burlington, Vt.

Executive Committee—Drs. Elmer Pike, '16, Burlington, Vt.; Sam Sparhawk, Jr., '26, Burlington, Vt.; Charles A. Ravey, '18, Burlington, Vt.

Obituary Committee—Drs. David Marvin, '00, Essex Junction, Vt.; Edward A. Tobin, '05, North Bennington, Vt.; T. S. Brown, '04, Burlington, Vt.

VERMONT DEPARTMENT OF PUBLIC HEALTH

State Board of Health: Edward J. Rogers, M. D., Pittsford, Chairman; William G. Ricker, M. D., St. Johnsbury; John P. Gifford, M. D., Randolph; Charles F. Dalton, M. D., Secretary and Executive Officer, Burlington; C. F. Whitney, M. D., Director of Laboratory; J. W. Votey, C. E., Sanitary Engineer; F. S. Kent, M. D., Director Communicable Disease Division; C. P. Moat, B. S., Sanitary Chemist; H. W. Slocum, A. B., Director Tuberculosis Division; W. L. Aycock, M. D., Poliomyelitis Research; Lillian E. Kron, R. N., Poliomyelitis After-care.

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, Dr. Dalton, being Professor of Hygiene and Preventive Medicine, while the Director of the Laboratory of Hygiene, Dr. Whitney, is Professor of Toxicology and Assistant Professor of Physiological Chemistry, and C. P. Moat, Sanitary Chemist of the Board, is Assistant Professor of Sanitary Chemistry in the College.