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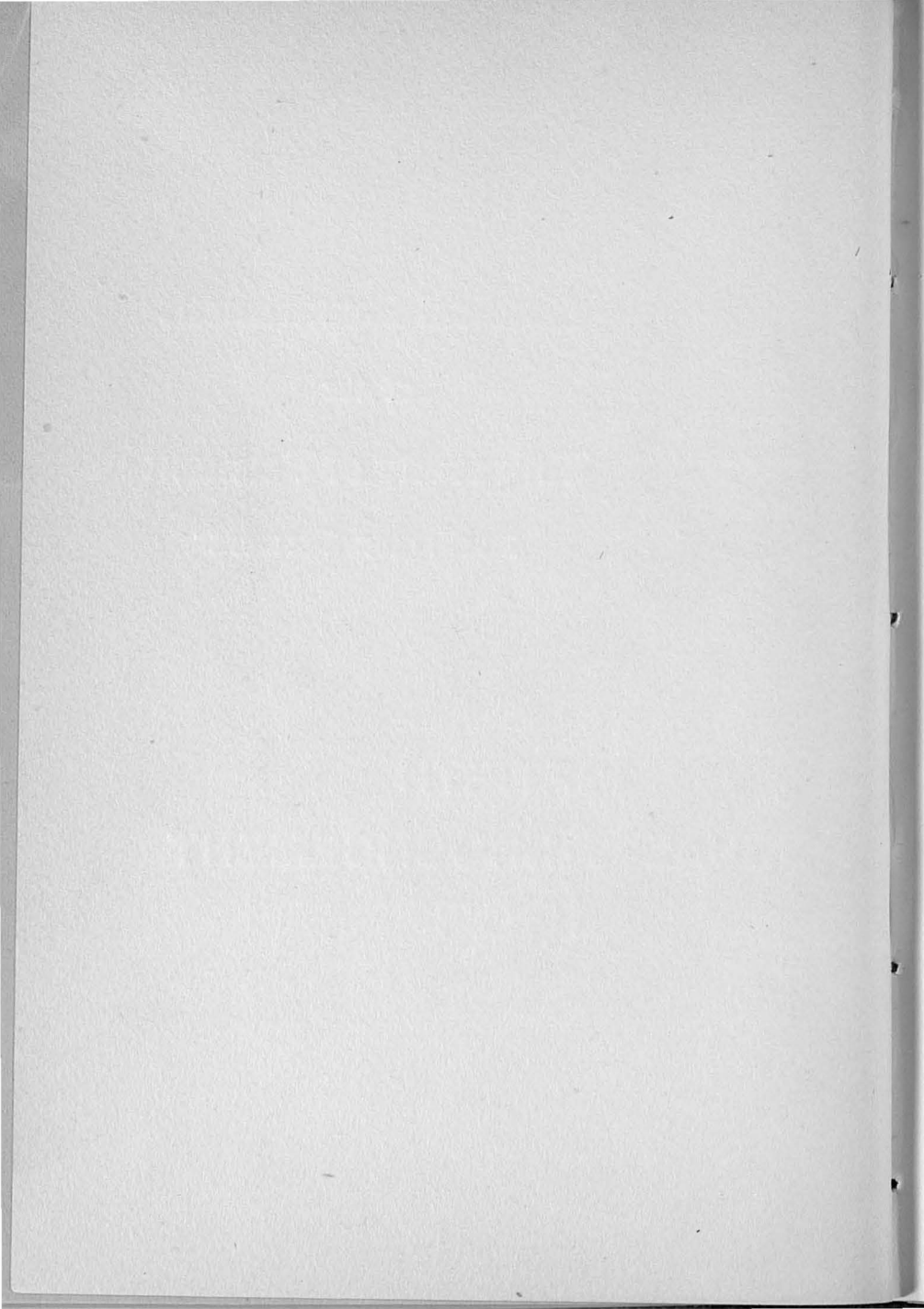
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Medical Department
of the
University of Vermont
Burlington, Vermont

FIFTIETH
ANNUAL ANNOUNCEMENT
1903



MEDICAL DEPARTMENT
OF THE
UNIVERSITY OF VERMONT,
BURLINGTON, VERMONT.

FIFTIETH ANNUAL ANNOUNCEMENT.

1903.

CONTENTS.

	Page.
Board	27
Clinical Advantages and Clinics	22
Course of Instruction	11
Detailed Statement of the Plan of Instruction.....	12
Faculty of Medicine	4
Fees	26
General Statement	8
Prizes	26
Requirements for Admission	9
Requirements for Admission to Advanced Standing	10
Requirements for Advancement in Course	23
Requirements for Graduation	25
Text-Books	27
Trustees of the University of Vermont	3

CALENDAR.

Opening Lecture	Friday, January 2
Regular Exercises Begin	Monday, January 5
Examination for Conditions	January 19 to 24
Entrance Examinations	January, March and June
Easter Vacation	April 10 to 13
Legal Holiday	Saturday, May 30
Examinations Begin	Monday, June 15
Commencement	Thursday, June 25

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R. A. KINLOCH,
FRANK PRESTON,
F. G. TAGGERT,

Assistants to Demonstrator of Anatomy.

General Statement.

The Medical Department of the University of Vermont is one of the oldest Medical Institutions in the United States. Anatomy and Surgery were taught by a Professor of those branches as early as 1809. Chemistry and Pharmacy, Botany and Materia Medica, and Physiology had professorships from 1821. In 1823 four men were graduated; in 1824, fifteen; in 1829, sixteen. From that point the number decreased till in 1836 there was only one graduate, and the department was suspended till 1854, when it was reorganized, and has since been in continuous operation.

In 1899, the Trustees of the University took entire control of the Medical Department and will hereafter administer it as an integral part of the University. They will become responsible to the State and to the public for the care and use of any funds or other gifts in aid of Medical education. They hope in this way to secure endowments for professorships, the means for the needed increase of buildings, and such additions from time to time to the apparatus and other facilities for instruction as will keep the department abreast with the most advanced Medical Institutions of the country.

The fiftieth annual session will begin on Friday, January 2, 1903, and continue until June 25th, 1903.

The *four-year* system of graded study was adopted by this school some years ago, and this period of study is now an invariable requisite for graduation.

The college building, given to the University by the late John P. Howard, is situated on Pearl street, in the city of Burlington, on the north side of and immediately overlooking the College Park.

Within this building are the lecture room, recitation rooms and laboratories for Practical Chemistry and Physiology, and the dissecting rooms for Practical Anatomy,—all of ample size, and supplied with modern conveniences and apparatus.

The laboratories for practical work in Histology, Pathology, Bacteriology and Clinical Microscopy have recently been removed to the block, No. 54 Church street. These laboratories have been entirely refurnished and much new apparatus has been added.

The College Museum (in the main building) contains an admirable collection of specimens and preparations—many of them rare—illustrating both normal and abnormal structures; it is always open to students.

The Mary Fletcher Hospital affords ample facilities for clinical instruction.

The aim of this department is to furnish the student with all the approved methods of obtaining a thoroughly practical as well as theoretical knowledge in every branch of medical work, so that, after graduation he may be fully equipped to begin the practice of his profession, and to pass with credit the examinations of the State Boards of Medical Examiners, as well as the examinations for admission to the medical corps of the United States Army, Navy, and Marine Hospital Service.

Requirements for Admission.

Applicants must matriculate within fifteen days from the opening of the session. No applicant for the session of 1903 will be received after Saturday, January 17th, 1903.

Applicants who have fulfilled any of the following conditions will be admitted without examination:

1. Those who have received the Degree of A. B., A. M., B. S., M. S., Ph. B., or Ph. D., from a College or University which maintains a satisfactory Academic standard.
2. Those who have successfully completed a full year's course of study in any College or University which maintains a satisfactory Academic standard.
3. Those who have passed satisfactorily the entrance examination to the Literary or Scientific Department of the University of Vermont, or to any other College or University which maintains a satisfactory Academic standard.
4. Those who have passed an entrance examination to a Medical School having requirements for entrance equivalent to those adopted by this Faculty.

5. Those who have received a "Medical Student's Certificate" from the Regents of the State of New York, or from any similarly constituted authority in other States.

6. Those who have received a Diploma or Certificate for any ten studies from the Regents of the State of New York, or from any similarly constituted authority in other States.

7. Those who have satisfactorily completed a four years' course in a High School, Normal School, or Academy.

Applicants who cannot fulfill any of the above conditions will be required to pass an Entrance Examination in Arithmetic, Grammar, Geography, Orthography, American History, English Composition and Elementary Physics before they can be *regularly* enrolled in this Department; those who fail in one or more branches at these examinations, may be *conditionally* enrolled; they must make up the deficiency, however, during the first year, before they can be enrolled as students in regular standing.

Isaac Thomas, A. M., Principal of the Burlington High School, has charge of the Entrance Examination and all questions arising in regard to certificates of education.

Examinations will be held at the High School Building in January, March and June of each year.

After the session of 1903 a full four years' course in a high school, or its equivalent, will be required for admission.

Students from Other Colleges.

Students coming from other medical colleges must present evidence of having passed an entrance examination equivalent to that demanded for entering this College, or otherwise comply with the requirements for entrance to the first year. (See page 0.)

Admission to the Second Year.

Students desiring to enter the second year must present evidence of having attended one regular session in an accredited medical college, and also certificates of having satisfactorily completed laboratory courses in histology and chemistry corresponding in extent to those given in this college during the first year. In the absence of such certificates the student will be required to take during his second year the laboratory course or courses which he has

not already taken. Evidence of dissection during one regular session is also required.

Admission to the Third Year.

Students desiring to enter the third year must present evidence of having attended two regular sessions at some accredited medical college or colleges, and must furnish certificates of having satisfactorily completed laboratory courses in histology, chemistry and pathology corresponding in extent to those given in this college, and of dissection during two sessions. In the absence of such certificates the student will be required to take during his third year such laboratory course, or courses, or dissection, as he has not already taken elsewhere.

Students entering the third year must pass satisfactory examinations in the subjects of anatomy, physiology, chemistry and materia medica.

Examinations in anatomy, physiology and chemistry are final.

Admission to the Fourth Year.

Students desiring to enter the fourth year must present evidence of having attended three regular sessions in some accredited medical college or colleges.

They must also present certificates of having satisfactorily completed laboratory courses in chemistry, histology, pathology, bacteriology and clinical microscopy and physical diagnosis, practical surgery and practical obstetrics.

They will be required to pass a satisfactory examination in anatomy, physiology, chemistry, materia medica and pathology.

Examinations in anatomy, physiology and chemistry are final.

Course of Instruction.

FIRST YEAR.

During the first year the student receives instruction by recitations, demonstrations and didactic lectures, in Anatomy, Physiology, and Chemistry. Laboratory work in Chemistry and Histology, and Practical Anatomy by Dissection.

SECOND YEAR.

During the second year more advanced instruction is given, by recitations, demonstrations and lectures, in the same branches of Anatomy, Physiology and Chemistry, to which are added recitations in *Materia Medica*, Pharmacology, Surgery, Obstetrics, General Symptomatology and Physical Diagnosis. Laboratory work in Pathology, Physiological Chemistry and Urinary Analysis. Dissections continued.

THIRD YEAR.

Recitations and Lectures in *Materia Medica* and Therapeutics, Surgery, Practice, Pathology, and Obstetrics, Recitations in Gynecology, Genito-Urinary Surgery and Diseases of the Nervous System. Practical Courses in Physical Diagnosis, Minor Surgery and Bandaging, and Demonstrative Obstetrics upon the Manikin. Laboratory work in Bacteriology, Applied Pathology and Clinical Microscopy. Medical and Surgical Clinics at the Mary Fletcher Hospital.

FOURTH YEAR.

Advanced Instruction in Therapeutics, Surgery, Practice, Obstetrics and Pathology. Clinical instruction in Medicine and Surgery continued. Instruction by lectures and clinics in Otolaryngology, Ophthalmology, Laryngology, Neurology, Dermatology, Gynecology, Pediatrics, Orthopedics, Mental Diseases, Genito-Urinary and Venereal Diseases. Lectures on Medical Jurisprudence and Toxicology.

Methods of Instruction in Separate Branches of Study.

Obstetrics and Gynecology.

PROF. A. F. A. KING.

ADJUNCT PROF. P. E. MCSWEENEY.

The instruction in Obstetrics and Gynecology is as follows:

During the second year recitations on the Physiology of Obstetrics are held once a week.

During the third year recitations are held on the Pathology of Obstetrics, also on Gynecology. Lectures on Obstetrics; and demon-

strative work upon the Manikin, in which the student will be taught Obstetric Operations, Abdominal Palpation, Pelvimetry, etc., under direction of a demonstrator.

During the fourth year lectures on advanced Obstetrics will be continued, with clinical instruction in Surgical Gynecology.

Physiology.

PROF. J. HENRY JACKSON.

ADJUNCT PROF. LYMAN ALLEN.

INSTRUCTOR, FRED K. JACKSON.

Instruction in this branch will be given during the entire session by lectures and recitations to students of the first and second years.

Three lectures a week during the term will present the subject on a broad scientific basis to students of both classes. Illustrations will be made by the aid of charts, diagrams, microscopes and experimental demonstrations.

The more modern researches of the physiology of the nervous system, and their practical application to medicine and surgery, will receive special attention.

Physiological chemistry, minute anatomy and histology are taught to the extent necessary to comprehend the physiology of the organs and systems of the body. These subjects are aided by careful laboratory work.

First year students recite twice a week on the following subjects in their order: Blood, circulation, respiration, digestion, absorption, secretion, excretion, animal heat, and nutrition. They are also expected to attend all lectures on these subjects.

Second year men will also attend all lectures, have one recitation each week on topics covered by the lectures and be prepared for an occasional written recitation on the subjects studied during the course.

Descriptive and Surgical Anatomy.

PROF. H. C. TINKHAM.

ADJUNCT PROF. H. R. WATKINS.

INSTRUCTOR, C. H. BEECHER.

Anatomy is taught throughout the first and second years by lectures, recitations, demonstrations and dissections.

The work of the first year consists of one lecture and two recitations a week for the entire session, and embraces the study of the bones, joints, muscles and spinal nerves. At the end of the first month the study of the bones will be advanced sufficiently to allow the beginning of dissection, and students will be assigned to work in the dissecting-room two hours daily.

There is a large collection of the bones of the human skeleton that are loaned to students to assist them in their study.

During the second year there will be two lectures and one recitation a week throughout the term. The work of the first year is reviewed and the study of the viscera, arteries, veins, lymphatics and nervous system is taken up. Dissections two hours daily will be assigned during the first part of the session.

There will be two demonstrations each week during the first half of the session for first and second year men. The class will be divided into sections and all the more important structures of the body will be demonstrated to each section.

There will be one lecture each week, for the first half of the session, on applied anatomy to the third and fourth year men.

Materia Medica and Therapeutics.

PROF. J. N. JENNE.

ADJUNCT PROF. JOHN GIBSON.

INSTRUCTOR, DAVID MARVIN.

The course of instruction in this branch will consist of recitations, demonstrations, didactic and clinical lectures, and section work in practical therapeutics and prescription-writing.

The subject will be taken up at the beginning of the second year, and will comprise the study of general definitions and the classification of remedies; a systematic study of mechanical and imponderable remedies, pharmaceutical preparations and processes, the doses and methods of administration, the circumstances modifying the effects of pharmacological remedies; weights and measures; and prescription-writing.

The work of this year will be wholly recitatorial and extend throughout the year.

The third year will include: 1st. Didactic lectures upon pharmacological remedies, treating of their titles, preparations and doses and their physiological, therapeutical and toxicological effects.

2d. A recitation course covering the same ground as the didactic lecture course and in review of it.

3d. A clinical course, at the Mary Fletcher Hospital, where the student will have an opportunity of witnessing the practical application of remedies to the cure of disease.

The recitation and clinical lecture courses will continue throughout the year, and the examination at the end of the year will be final except upon the subject of therapeutics.

The fourth year's course of study will comprise a didactic and a clinical course, to which will be added section work in practical therapeutics and practical prescription-writing.

The two former mentioned courses will be in review of the preceding year's work, but special attention will be given to more advanced therapeutics.

In the clinical course the class will be divided into small sections, and the relations between the individual student and the patient made to approximate, as closely as possible, the same as between physician and patient in the actual practice of medicine.

Principles and Practice of Surgery.

PROF. J. B. WHEELER.

ADJUNCT PROF. LYMAN ALLEN.

Instruction in surgery is given by lectures, didactic and clinical, by operations performed before the class, by recitations, by practical demonstrations of the application and uses of splints, bandages and other surgical appliances and by operations on the cadaver.

The course is arranged as follows:

SECOND YEAR. *Principles of Surgery.* Two recitations a week throughout the year.

THIRD YEAR. *General and Regional Surgery.* One recitation, four didactic lectures and two clinics a week throughout the year. Practical instruction in bandaging and the use of surgical appliances.

FOURTH YEAR. *General and Regional Surgery*, as in the third year. Operative Surgery on the cadaver. Clinics and lectures on Gynecology, Genito-Urinary Surgery and Orthopedic Surgery.

Practical instruction in bandaging and the other technique of minor surgery is given to the class in sections. Students will themselves apply bandages and practice the different manipulations which are demonstrated to them.

Operations on the cadaver are performed by the students themselves, under the direction of the Professor of Surgery. This course includes amputations, excisions, ligation of arteries and operations on the head, thorax and abdomen.

The clinics are held in the amphitheatre of the Mary Fletcher Hospital. The ample supply of clinical material afforded by this institution enables the class to witness operations of every description.

Theory and Practice of Medicine.

PROF. ALOYSIUS O. J. KELLY.

ADJUNCT PROF. AND INSTRUCTOR, HARRIS R. WATKINS.

INSTRUCTOR IN NEUROLOGY, CLIFFORD A. PEASE.

INSTRUCTOR IN BACTERIOLOGY AND CLINICAL MICROSCOPY,

BINGHAM H. STONE.

The instruction in this department has been thoroughly reorganized, considerably amplified, and made to conform to the modern requirements of the science and art of medicine. In the reorganization the endeavor has been so to arrange the course that the individual student may become thoroughly acquainted with the modern methods of investigating disease and with the varied manifestations of disease as met at the bedside. To this end the instruction is carried on throughout the second, third and fourth years of the course, and consists of recitations, quizzes, lectures, practical work at the bedside and in the clinical laboratory, and general medical clinics.

In the second year, by means of recitations, lectures, and practical work with the healthy subject, the student is thoroughly grounded in terminology and symptomatology, and in normal physi-

cal diagnosis. It is considered essential that the student should early acquire a knowledge of the terms used in medicine, as well as of the more common symptoms of disease. Emphasis is laid upon the importance of a complete knowledge of normal physical diagnosis before the study of morbid physical diagnosis is undertaken. The greater portion of the practical work in physical diagnosis, in the second year therefore, is devoted to the study of the methods of physical diagnosis and to the investigation of normal conditions; by way of contrast, however, toward the end of the term, several common diseased conditions are presented for investigation. In this year, also, in the chemical and in the clinical laboratory, especial attention is directed to the chemical and microscopic examination of the urine.

The instruction in the third year consists of recitations on the practice of medicine (including neurology), practical work in physical diagnosis, lectures on the practice of medicine, and general medical clinics. The practical work in physical diagnosis is conducted in sections, whereby the individual student is enabled to become proficient in the various methods of physical diagnosis, and is afforded an opportunity repeatedly to see and hear for himself the different physical manifestations of diseased processes, proficiency in the recognition of which comes only with practice. The lectures on the theory and practice of medicine are designed to be as practical as possible; they are intended to thoroughly ground the student in the principles of physic which find their practical application in the general medical clinics. The general medical clinics, to which increasing importance is attached, have been increased in number. In addition to the foregoing two new courses have been instituted: the one a clinical demonstration course, the other a course in clinical microscopy. In the clinical demonstration course, which will be given by the adjunct professor, the student is instructed in the methods of investigating diseases at the bedside, in the manner of interpreting properly the manifestations of disease and their varying significance, in the principles of differential diagnosis, and in the indications for and the methods of applying clinical therapeutics. In the course in clinical microscopy the students, in sections, are instructed in the methods of examining the blood, sputum, gastric contents, secretions, excretions, etc.

The instruction in the fourth year consists in recitations on selected subjects in the practice of medicine, lectures on the practice of medicine, the aforementioned clinical demonstration course, and general medical clinics. The work for the fourth year men is designed to be as practical as possible. In the clinical demonstration course as well as in the general medical clinics the students, in turn, are required to examine the patients before the class, to make their own diagnoses and to defend them, and to suggest treatment. As occasion presents itself they are also required to examine the blood, sputum, urine, etc., of the patients. In a word the student is repeatedly instructed in the general conduct of medical cases such as he will encounter in his future medical practice.

Chemistry.

PROF. HORACE L. WHITE.

INSTRUCTOR, JOSEPH A. ARCHAMBAULT.

Instruction in this department is given during the first two years. The work of the first year is the laying of a firm foundation in general chemistry, and to this end lectures, demonstrations, recitations and laboratory exercises extend throughout the year. The lectures, demonstrations and recitations deal with the principles of general chemistry, including a brief survey of theoretical chemistry and the relations existing between physics and chemistry, and followed by a careful study of the more important elements and compounds. The laboratory course includes a practical study of physical and chemical changes, the preparation of some of the elements and a thorough drill in qualitative analysis which is valuable for the knowledge of chemistry gained, and for the familiarity with the technique of chemical operations.

The instruction of the second year consists of lectures upon organic and physiological chemistry supplemented by demonstrations, recitations and laboratory courses, especial attention being paid to such parts of the subject as are of value to the physician of the day. Two laboratory courses are given; one in physiological chemistry, which includes a study of proteids, carbohydrates and fats, together with digestive processes, and a course in urine analy-

sis which includes a thorough drill in the examination of urine chemically and microscopically.

Opportunity for advanced work is afforded to a limited number of students.

Pathology.

PROF. OTTO H. SCHULTZE.

INSTRUCTOR, F. E. CLARK.

FIRST YEAR. Laboratory Course in Normal Histology, two hours weekly during the entire session. The student retains the sections which he has prepared for future study and reference.

SECOND YEAR. Laboratory Course in Pathologic Histology, two hours weekly, during the entire session. The sections are prepared and retained by the student.

THIRD YEAR. Demonstrations in Gross Pathologic Anatomy, two hours weekly throughout the session.

Laboratory Course in Bacteriology, devoted to the methods of Bacteriologic investigation, and the demonstration of the more common pathogenic micro-organisms.

THIRD AND FOURTH YEARS. Lecture Course on General and Special Pathology, thirty hours during each session, illustrated by specimens and projections on the screen of photomicrographs.

Laboratory demonstrations will be supplemented by recitations from selected text-books.

Toxicology.

PROF. R. A. WITTHAUS.

Instruction in this department of Chemistry will be given to fourth year students and will consist of lectures and demonstrations, special consideration being given to the medical and medico-legal bearing of the subject.

Disease of the Nervous System.

PROF. DAVID A. SHIRRIS.

INSTRUCTOR, C. A. PEASE.

During the third year there will be weekly recitations from a text-book throughout the session.

In the fourth year a course of didactic and clinical lectures will be given.

Surgical Diseases of Women.

PROF. A. LAPTHORN SMITH.

A course of didactic and clinical lectures will be given in this department of surgery during the fourth year.

The didactic lectures are fully illustrated by charts and drawings and all the important operations are done in the clinics.

Genito-Urinary and Venereal Diseases.

PROF. F. R. ENGLAND.

A course of lectures both didactic and clinical will be given on Genito-Urinary Surgery and Venereal Diseases during the fourth year. These courses are clinical so far as possible.

Diseases of the Eye, Ear and Throat.

PROF. MARSHALL C. TWITCHELL.

Clinical lectures on Diseases of the Eye, Ear and Throat will be given twice a week during March and April, to students of the fourth year. During this course the student will be able to study a large variety of diseases of the eye and ear, and to witness most of the important operations in this department of surgery.

Mental Diseases.

PROF. WALTER D. BERRY.

A course of lectures founded on the Kraepelin teachings will be given and clinical cases representative of the various types of mental diseases will be exhibited at each lecture. An effort will be made to make the course thoroughly practical as well as theoretical, and finish the course of instruction with a clinic at the State Hospital for the Insane.

Diseases of Children.

PROF. GODFREY R. PISEK.

A course of didactic and clinical lectures on this important branch of medicine will be given during the fourth year.

Dermatology.

PROF. ELLICE M. ALGER.

Professor Alger of New York will give a course of lectures on Diseases of the Skin. The work will be both didactic and clinical.

The entire subject is gone over carefully and cases illustrating the various forms of skin disease are presented for examination.

Orthopedic Surgery.

PROF. A. R. SHANDS.

The course of instruction in this department of Surgery will be given by Prof. Shands, of Washington, D. C., and will consist of lectures and clinics. The class will be instructed in the principles of Orthopedics, and careful demonstrations will be given of the treatment, mechanical and operative, of diseases and deformities of the bones and joints.

Medical Jurisprudence.

J. E. CUSHMAN, Esq.

This course of lectures, designed to instruct only in such matters as are essential to the *medical* practitioner, will treat of the right to practice medicine and surgery; the right to compensation; the degree of skill the practitioner must possess; his amenability to the criminal law; the return of births, deaths and contagious diseases; confidential communications from patients; medico-legal autopsies and reports thereon; whether death is the result of natural or violent causes; identification of mutilated remains; the right to certain dead bodies for anatomical purposes; medical and expert testimony; insanity, mental capacity, and judicial toxicological investigations.

Clinical Advantages.

The Mary Fletcher Hospital was opened in 1876 for the treatment of patients. Additions and improvements have been made from year to year, until now it is unrivalled in its appointments for the care of medical and surgical cases.

The Hospital consists of a large administrative building, with many rooms for private patients, and two ample pavilion wards. In a separate building connected with the wards and administrative building by a corridor, is a large amphitheatre, capable of seating two hundred persons. There are also an anæsthetizing and a recovery room opening into the amphitheatre. Rooms for out-patients are also attached to the building. In fact, every arrangement for clinical instruction is provided.

In the amphitheatre, medical and surgical clinics will be held during the entire session.

The following are members of the Medical and Surgical Board of the Mary Fletcher Hospital, who are connected with the Medical College:

Attending Surgeon: PROF. JOHN B. WHEELER.

Attending Surgeon: PROF. H. C. TINKHAM.

Attending Physician: DR. P. E. MCSWEENEY.

Attending Physician: DR. H. R. WATKINS.

Ophthalmic Surgeon: PROF. M. C. TWITCHELL.

Consulting Physician: PROF. A. O. J. KELLY.

Clinics.

It is important that students have as much clinical teaching as they can properly comprehend, thus giving them the opportunity to make application of the more abstract knowledge obtained by didactic teaching.

To this end there have been a large number of clinics included in the curriculum of the fourth year.

There are six regular and from one to four special clinics each week. There is an abundance of clinical material.

The medical clinics, two each week, will be conducted by Professors Kelly, Jenne and Watkins. In these clinics the students ex-

amine the cases, make their diagnoses, and suggest treatment. Special attention is given to teaching students how to properly examine a patient, to estimate the value of symptoms, to make differential diagnoses, etc., etc.

The surgical clinics, two each week, will be conducted by Professors Wheeler and Tinkham. The large number of cases in these clinics gives the student an opportunity to see and examine a great variety of cases of almost every surgical condition.

The operations are performed before the class, each step being fully explained.

Clinics on the eye, ear, nose and throat are conducted by Professor Twitchell twice a week. The abundance of material in these clinics makes it possible for students wishing to fit themselves for this specialty to see every form of disease of these organs and to witness a great variety of operations.

Clinics on Genito-Urinary Diseases, Diseases of Women, Diseases of the Skin, Diseases of the Nervous System, Mental Diseases, Diseases of Children, and Orthopedics will be held from time to time throughout the year by the professors of these subjects.

The clinics now offered by the Medical Department of the University are all that the students have time to attend and properly study.

Requirements for Advancement in Course.

Attendance upon all the exercises assigned for each year is obligatory upon every student. The work of each year is considered final in itself, and students are advanced from one class to the next higher class when they have satisfactorily completed the work assigned for the year and have satisfactorily passed the required examinations.

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 dissecting room, in the different laboratories, and at other practical exercises, as the case may be; upon the character of his recitations; upon the results of certain bi-monthly written and practical tests; and upon the results of the examinations (written or oral, or both) held at the end of the session. Each student must have done satisfactory

work, and must have passed satisfactory examinations in all the subjects assigned for each class before he will be advanced to the next higher class.

First year students are advanced to the second year class when their work in the dissecting, recitation, and laboratory exercises of the first year have been satisfactory, and when they have passed satisfactory examinations on the work of the first year in anatomy, physiology, chemistry and histology.

Second year students are advanced to the third year class when their work in dissecting, recitation, laboratory and other practical exercises of the second year has been satisfactory, and when they have passed satisfactory examinations on the work of the second year in materia medica, practice of medicine, surgery, and obstetrics, and satisfactory final examinations in anatomy, physiology, chemistry, and laboratory pathology.

Third year students are advanced to the fourth year class when their work in the recitation, laboratory, and other practical exercises of the third year has been satisfactory, and when they have passed satisfactory examinations on the work of the third year in practice of medicine, surgery, obstetrics, materia medica, therapeutics, pathology, clinical microscopy and bacteriology.

Every student who has failed to fulfill the requirements for advancement from one class to the next higher class must present himself, at the beginning of the following session, for re-examination in the subjects in which he was conditioned. His standing now will be determined by the results of this re-examination, as well as by the general character of his work in the dissecting room, in the different laboratories, and at other practical exercises (as the case may be), by the general character of his recitations, and by the results of the bi-monthly written and practical tests during the preceding year. If these together do not make his standing satisfactory he will not be advanced to the next higher class. In any event, if the condition has been in dissecting or in laboratory work, the work must be repeated satisfactorily during the following session, at the end of which the examination will be held.

A first, second, or third year student failing to remove a condition or conditions at the re-examination at the beginning of the session will be required to repeat all the work assigned for the year

in which he was conditioned (including dissecting, laboratory and other practical exercises, recitations, clinics, etc. (as the case may be) before he may again apply for examination at the end of the session.

The standing of each conditioned student at the end of the session will be based upon the general character of his work (as already outlined) and upon the result of his examinations during this, the repeating year, and not upon the character of his work and the results of his examinations during the year in which he was conditioned.

In exceptional cases, upon vote of the faculty, a first, second or third year student who, after the re-examination at the beginning of the session, is still conditioned in one subject only, may be advanced to the next higher class conditionally; provided, however, that a student will not be permitted to become a member of the second year class until he has removed all conditions pertaining to the entrance examinations; that a student will not be permitted to become a member of the third year class until he has removed all conditions pertaining to the work of the first year class; and that a student will not be permitted to become a member of the fourth year class until he has removed all conditions pertaining to the work of the second year class.

Fourth year students who fail to fulfill the requirements for graduation will be required to repeat satisfactorily, during some subsequent session, all the work of the fourth year, and at the end of the session appear for re-examination in all subjects upon which fourth year students are examined.

A student who has been a member of either the first, second or third year classes, and has failed to fulfill the requirements for advancement to the next higher class, and a student who has been a member of the fourth year class for three sessions and has failed to fulfill the requirements for graduation, will not be re-enrolled as a student of the college.

A student who fails to present himself for any examination at the close of the session will be classed as having taken the examination and failed to pass it, unless he shall have been excused from such examination by the faculty.

Requirements for Graduation.

Four full sessions in four different calendar years, the last at this college, will be required of all students.

No candidate indebted to the college will be admitted to an examination.

Candidates for the Degree of Doctor of Medicine must have attained the age of twenty-one years, and must present certificates of the time of study, of age and of moral character. Each candidate is required to deposit his examination fee with the Secretary of the Faculty one month before the close of the session.

He must present evidence of having satisfactorily completed the work of the first three years as defined on page — and must also pass satisfactory written or oral examinations in Therapeutics, Practice of Medicine, Surgery, Obstetrics and Pathology.

He must be present at Commencement unless excused by the Faculty.

Certificates of having passed in any branch or branches in other colleges will not be accepted by this college.

Graduates of other regular Medical Colleges who desire a degree from this University must pass a satisfactory examination in Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Practice of Medicine, Surgery, Obstetrics and Pathology.

No credit in time or in lectures shall be given any student by virtue of his degree in Pharmacy or Veterinary Surgery.

Degrees *in absentia* are not conferred by this University.

The Faculty reserve the right to terminate the relation of any student with the Medical Department, at any time, on adequate evidence of immoral character, want of principle, or intellectual unfitness for the medical profession.

Faculty Prizes.

The Faculty have established two Prizes for general proficiency—a First Prize of Fifty Dollars and a Second Prize of Twenty-five Dollars. The prizes will be awarded as follows:

The student who has the highest rating for the entire four years will be awarded the first prize.

The student who has the second highest rating for the entire four years will be awarded the second prize.

The five students who have the five highest ratings for the entire four years will be awarded a *special diploma of honor*.

The announcement of prizes and honor men will be made at Commencement.

The honor men of the class of 1902 were:

Henry Tierney Bray,	Louis Leopold Davidson,
Frank Floyd Finney,	Henry Wade Hopkins,
George Harvey Parmenter.	

The first prize was awarded to George Harvey Parmenter. The second prize was awarded to Henry Tierney Bray.

Full Fees of the College.

Matriculation Fee, payable each term.....	\$ 5 00
Full Fee for each session, if paid within thirty days.....	110 00
If not all paid within 30 days.....	115 00
Single Tickets for those who wish to take one or more subjects and not the whole course.....	20 00
Fee for graduation, payable once and not returnable.....	25 00

Graduates of other regular Medical Schools are admitted on payment of the matriculation fee and \$25.00.

Graduates of this school are admitted without fee.

Theological students are admitted on payment of the matriculation fee only, unless intending to graduate in medicine, in which case they will be required to conform to the above conditions.

Students will be required to deposit with the Secretary \$5.00, from which will be deducted the value of any bones taken from the Museum which are not returned, and any charge for breakage

in the laboratories. The remainder of such deposit, or the whole, if there be no charge against it, will be returned to the student at the close of the term.

If the fee for the session is paid during the first thirty days it will be \$110.

If the full fee for the session is not paid within thirty days from the opening of the session it will be \$115.

One-half the fee, \$55, must be paid within thirty days and the remainder within ninety days from the opening of the session.

Students whose fees are in arrears will not receive credit for attendance or class work.

For further particulars address the Secretary,

B. J. ANDREWS, M. D.,
Mary Fletcher Hospital,
BURLINGTON, VT.

Board.

Board may be obtained for from \$3.50 to \$5.00 per week. Good accommodations can be found for students who wish to board themselves. Many adopt this method at a great reduction in expense. Students who intend to board themselves will find such bedding and culinary articles as they may require, furnished with the rooms.

After registering, every student is furnished with a certificate entitling him to reduced rates on railroad and steamboat lines running into Burlington.

Text Books and Books of Reference.

Anatomy.—Morris, Gray, Gerrish, Holden's Manual, Haynes' Manual, Weisse's Practical Anatomy.

Bacteriology.—Williams, Abbott, Sternberg, McFarland.

Chemistry.—Witthaus's Manual, 5th edition; Witthaus's Laboratory Guide, 4th edition; Remsen's Organic Chemistry, Wolf's Physiological Chemistry and Urine Analysis, Purdy's Urinary Analysis, Tyson's Urinary Analysis.

Clinical Microscopy.—Von Jaksch's Clinical Diagnosis, Simon's Clinical Diagnosis, Cabot's Clinical Examination of the Blood, Peyer's Atlas of Clinical Microscopy, Ewing's Clinical Pathology of the Blood.

Dermatology.—Jackson, Hyde, Crocker, Duhring.

Dictionary of Medicine.—Gould, Dorland, Keating, Duane, Dunglison.

Genito-Urinary Diseases.—White & Martin.

Gynecology.—Garrigues, Penrose, Byford's Manual.

Histology.—Piersol, Klein, Schaffer, Stohr.

Laryngology.—Coapley, Kyle.

Materia Medica.—Potter, Shoemaker, Butler, White, United States Pharmacopea.

Medical Jurisprudence.—Witthaus & Becker, Taylor, Ordranax, Reese and Chapman.

Neurology.—Dana, Gray, Mills, Gowers.

Obstetrics.—Playfair, Parvin, Lusk, King's Manual, Grandin & Jarman's Works, The American Text-book.

Ophthalmology.—De Schweinitz, Fuchs.

Otology.—Bacon.

Pathology.—Stengel, Delafield & Prudden, Green, Ziegler, Woodhead.

Physical Diagnosis.—Cabot's Physical Diagnosis.

Pediatrics.—Holt's Diseases of Children, Chapin's Infant Feeding.

Physiology.—First year, Stewart's Manual; second year, Howell's American Text-book.

Prescription Writing.—Thornton.

Surgery.—Principles.—Nancrede, Senn, Warren.

* *General and Regional Surgery.*—Park, International Text-book, American Text-book.

Operative Surgery.—Bryant, Stimson.

Minor Surgery and Bandaging.—Wharton.

Fractures and Dislocations.—Scudder, Stimson.

Therapeutics.—Hare's System, (3 vols.), Hare, (1 vol.), National Dispensatory.

Theory and Practice of Medicine.—Tyson or Osler, Anders, Lockwood's Manual, Musser's Medical Diagnosis, DaCosta's Diagnosis.

Venereal Diseases.—Sturgis and Cabot.

GRADUATES, 1902.

Henry Tierney Bray	Hartford, Conn.
Sheldon Samuel Stratton Campbell	St. Albans, Vt.
Sidney Raymond Carsley	New Portland, Me.
Jaynes Mott Crumb	South Otselic, N. Y.
Louis Leopold Davidson	New York City, N. Y.
Hugh Francis Dolan	Bangor, Me.
Frank Floyd Finney, Ph. B.	Hinesburgh, Vt.
John Edward Fitzgerald	Burlington, Vt.
David Harris Gatchell	Old Town, Me.
Perley Harriman	Burlington, Vt.
Roland John Harvey	East Burke, Vt.
Edward Allen Heath	Burlington, Vt.
Nebuther Holden	Boston, Mass.
Henry Wade Hopkins	Essex Junction, Vt.
Daniel James Hoyt, A. B.	Amsterdam, N. Y.
Raymond Child Jones	Woodsville, N. H.
Willard Wallace LeMaire	Taunton, Mass.
John Patrick Lenahan	Hudson, N. H.
Frank Clark Lewis	Burlington, Vt.
Lawrie Byron Morrison	Ryegate, Vt.
Peter James Mullen	Beekmantown, N. Y.
George Harvey Parmenter	Montpelier, Vt.
Charles Winfield Phillips	Arlington, Vt.
Bert Leon Richardson	Gorham, N. H.
William Moller Schroeder	New York City, N. Y.
Ernest Elliott Sparks	Williamsville, Vt.
Wallace Henry Tarbell, B. L.	Kansas City, Mo.

George Southwick Thompson	West Medway, Mass.
Thomas P. Walsh	Middletown, Conn.
Vance William Waterman	Burlington, Vt.
Robert Moore Wells	Barton, Vt.

Fourth Year Men—1902.

Henry Tierney Bray.....	Hartford, Conn.
Marcus Allen Brendel.....	Hamburg, N. Y.
Sheldon Samuel Stratton Campbell.....	St. Albans, Vt.
Sidney Raymond Carsley.....	New Portland, Me.
Harry Carter.....	South Manchester, Conn.
Jaynes Mott Crumb.....	South Otselic, N. Y.
Louis Leopold Davidson	New York City, N. Y.
Jesse Judson Dearborn.....	Milford, N. H.
Thomas Benton Dearborn.....	Milford, N. H.
Hugh Francis Dolan.....	Bangor, Me.
Frank Floyd Finney, Ph. B.	Hinesburgh, Vt.
John Edward Fitzgerald.....	Burlington, Vt.
David Harris Gatchell.....	Old Town, Me.
Otto Vernon Greene	Bethel, Vt.
Perley Harriman	Burlington, Vt.
Roland John Harvey	East Burke, Vt.
Edward Allen Heath	Burlington, Vt.
Nebuther Holden	Boston, Mass.
Henry Wade Hopkins	Essex Junction, Vt.
Daniel James Hoyt, A. B.	Amsterdam, N. Y.
Raymond Child Jones.....	Woodsville, N. H.
Willard Wallace LeMaire.....	Taunton, Mass.
John Patrick Lenahan	Hudson, N. H.
Frank Clark Lewis	Burlington, Vt.
Leon Elden Libby	Bridgeton, Me.
Lawrie Byron Morrison	Ryegate, Vt.
Peter James Mullen	Beekmantown, N. Y.
George Harvey Parmenter	Montpelier, Vt.
Charles Winfield Phillips	Arlington, Vt.
Bert Leon Richardson	Gorham, N. H.
William Moller Schroeder.....	New York City, N. Y.
Ernest Elliot Sparks	Williamsville, Vt.
Wallace Henry Tarbell, B. L.	Kansas City, Mo.
George Southwick Thompson	West Medway, Mass.
Thomas P. Walsh	Middletown, Conn.
Vance William Waterman	Burlington, Vt.
Robert Moore Wells	Barton, Vt.

Third Year Men—1902.

Charles Gorden Abell	Enosburgh Falls, Vt.
William Henry Black	Burlington, Vt.
David Russell Brown	Wentworth, N. H.
Emerson Marrs Bushnell	Williston, Vt.
Benjamin Joseph Butler.....	Crompton, R. I.
Linn Henry Corey	Woodstock, Vt.
Henry Leo Crahan	Chittenden, Vt.
Charles Francis Dalton	Springfield, Mass.

Thomas Edward Duffee	Lowell, Mass.
Frank Harvey Dunbar	Swanton, Vt.
Albert Clinton Eastman	Barnard, Vt.
George Crofton Enright	Burlington, Vt.
William Francis Hamilton	Millers Falls, Mass.
Robert Burns Harriman	St. Johnsbury Center, Vt.
Chauncey Earle Hunt	Montpelier, Vt.
Raymond Alexander Kinloch	Troy, N. Y.
Howard Fellows Morse	Center Harbor, N. H.
Harry Bradford Perkins	Bakersfield, Vt.
Frank Preston	Burlington, Vt.
Joseph Warren Richardson	Barre, Mass.
William Rathburn Rowland	East Corinth, Vt.
Samuel Dudley Rumrill	Springfield, Mass.
Henry Elijah Somers	Irasburgh, Vt.
Frank Elijah Spear	Charlotte, Vt.
Fenwick Gordon Taggart	Burlington, Vt.
John Edward Valle	Island Pond, Vt.
Norman Brown Webber, B. S.	Manchester, N. H.
Charles Flagg Whitney, B. S.	Williston, Vt.
Samuel Wilenchick	New York City, N. Y.
Chauncey Warner Willey	Cambridge, Vt.

Second Year Men—1902.

Landon Abernethy	Bristol, Vt.
Dell Beeman Allen, Pn. B.	Burlington, Vt.
Harry Nelson Archibald	Troy, N. Y.
Ernest Eston Bicknell	Johnson, Vt.
Henry Raymond Biggar	Chicago, Ill.
Herman David Bone, B. S.	Wells River, Vt.
Thomas Stephen Brown	Deerfield, N. H.
Charles Stephen Buchanan	Troy, N. Y.
Curtis Charles Alfred Bullock	Roxton Pond, P. Q.
Edward James Burke	Burlington, Vt.
Gersham Loveland Closson, Jr.,	Springfield, Vt.
Alden Vernon Cooper	Lewiston, Me.
Lewis Clinton Day	Nicholville, N. Y.
Julius Edward Dewey	Montpelier, Vt.
Isaac Randall Doane	Springfield, Vt.
Peter Leo Dorey	Underhill Center, Vt.
Dean Spencer Drake	West Lebanon, N. H.
Stephen Farrer Dunn	Woonsocket, R. I.
George William Eddy	Schuylerville, N. Y.
William Warren Ferrin	Portsmouth, N. H.
Rowe France	Burlington, Vt.
Jesse Louis Gammons	Brooklyn, N. Y.
Stillman Proctor Grout	Cavendish, Vt.
Joseph Bernard Guiltinan	Bennington, Vt.
Nathaniel William Hankemyer, A. B.	Winooski, Vt.
DeForest Clinton Jarvis	Burlington, Vt.
Edwin Francis Jones	Burlington, Vt.
Linwood Major Kelley	Richford, Vt.
Warren Edglie Kershner	Waterville, Me.

Edward Cloyd Kistler	Blain, Pa.
Fred Joseph LaFleur	Providence, R. I.
Arthur Leo Larner	Burlington, Vt.
George Eugene Latour	Burlington, Vt.
James Francis Lawlor	East Douglas, Mass.
Robert Henry Lee	Dorset, Vt.
William Franklin LeMaire	Taunton, Mass.
Lothair Lewis Leonard	Montpelier, Vt.
Lewis Florence McCarthy	Morrisville, Vt.
Florence William McCarthy	East Dickenson, N. Y.
Herbert Sawyer McCasland	Redford, N. Y.
James Parker MacDowell	Penn Yan, N. Y.
Edward Rodrick Benedict McGee	Berlin, N. H.
Patrick Joseph McKenzie	Burlington, Vt.
Roy Sidney Morse, Ph. B.	Montpelier, Vt.
Daniel Joseph Nolan	Burlington, Vt.
Michael Joseph Noone	Scranton, Pa.
George Bernard O'Connell	Auburn, Me.
Daniel Vincent O'Donnell	Bennington, Vt.
Charles Norman Perkins	Burlington, Vt.
Willis Staats Pomeroy	Voorheesville, N. Y.
John Lyman Potter	Island Pond, Vt.
Charles Ai Pratt	Franklin, Vt.
Vernon George Rand	Burlington, Vt.
William Edson Ross	Franklin Falls, N. H.
Harry Richard Ryan	Rutland, Vt.
Delano Richmond Ryder	Marion, Mass.
Otis White Sedgwick	Bondville, Vt.
Charles Jay Shaw	Shoreham, Vt.
William Becker Stewart	Oneonta, N. Y.
Eulick Francis Sullivan	Three Rivers, Mass.
Francis Albert Taylor	Brooklyn, N. Y.
Harry Wallace Trask	Worcester, Mass.
John Wilson Trask	Lynn, Mass.
James Cornelius Wilson	Hartford, Conn.

First Year Men—1902.

John Edward Adams, A. B.	Swanton, Vt.
Heber Morse Adams	Hill, N. H.
Burdett Loomis Arms	Boston, Mass.
Elmer Joseph Barney	Berlin, N. H.
Glen Irving Bidwell	Madison, N. Y.
Bayard Taylor Blake	Nicholville, N. Y.
Wilfred Chlorus Bliss	So. Burlington, Vt.
Frank William Boadway	Starr, N. Y.
Bird Joseph Arthur Bombard	Keeseville, N. Y.
Albert Wellington Bridge	Freligsburg, P. Q.
Frederick Gustave Buesser	Troy, N. Y.
Alfred Mitchell Butterfield	North Troy, Vt.
George Delbert Buxton	Burlington, Vt.
William Alfred Cassidy	Rutland, Vt.
William Henry Clancey	Marlboro, Mass.
Robert Emmett Conlin	Poughkeepsie, N. Y.

Charles Augustus Davis	Berne, N. Y.
Arnold Allen Denton	Upper Jay, N. Y.
Gyrdie Willie Dickinson	Fairfield, Vt.
Frederick Lewis Eames	Millbury, Mass.
Alson David Ferris	South Hero, Vt.
Robert Cushman Flagg	Berlin, N. H.
Clinton Fifield Gale	Barre, Vt.
Frederic Henry Gebhardt	Utica, N. Y.
William Myron Guernsey	Middlebury, Vt.
Michael Arthur Haheer	Proctor, Vt.
Joseph Horton Hays	Salem, N. Y.
Lewis Edward Hemenway, A. B.	Manchester, Vt.
Harley Sylvester Herrick	Herrick, Vt.
Ralph Wilson Hoyt	Penn Yan, N. Y.
Fayette Elmore Hubbard	Burlington, Vt.
Leslie Herbert Huggard	Henderson's Corner, N. B.
John Hughes	Providence, R. I.
Abbott Trask Hutchinson, A. B.	Burlington, Vt.
Tracy Keeler Johnson	Greene, N. Y.
James Ambrose Jones	Boston, Mass.
Daniel John Keelan	Utica, N. Y.
Walter Lamson Kelso, B. L.	New Boston, N. H.
Edward Anthony Kennedy	St. Albans, Vt.
William Wesley Ker	Shepherd, Mich.
George LeRoy Knapp	Shoreham, Vt.
William Arthur LaField	Bridgeport, Conn.
Edmund Rushmore Lape	Fair Haven, Vt.
Thomas Aloysius Louby	Pomfort, Conn.
Joseph Taney McGinity	Shoreham, Vt.
Matthew John Mangan	Rutland, Vt.
Byron Andrew Martine	Glens Falls, N. Y.
Alvah Vernon Mills	Boston, Mass.
James LaSalle Miner	St. Johnsbury, Vt.
Roscoe Lee Mitchell	Charleston, Me.
William Cameron Mitchell	Old Chatham, N. Y.
Will Hayes Mitchell	Burlington, Vt.
Erastus Frederic Morris	Burlington, Vt.
Cornelius Parnell Murphy	Old Town, Me.
John Charles Murphy	Richmond, Vt.
Elwood Arthur Nichols	Massena, N. Y.
Edward James Owens, A. B.	Berkley, R. I.
Weston Henry Rice	Burlington, Vt.
George Albert Russell	Bristol, Vt.
Leon Loyal Samson	Nicholville, N. Y.
Thomas Ahern Shaughnessy, A. B.	Bellows Falls, Vt.
John David Smith	Jay, N. Y.
Edwin Francis Sullivan	Gloucester, Mass.
Henry Lewis Taft	Burlington, Vt.
Edward Arthur Tobin	Northampton, Mass.
Roy Willard Tyler	Burlington, Vt.
George Walreth	St. Johnsville, N. Y.
Frank Waldo Ward	Kennebunk, Me.
John Martin Wheeler, A. B.	Burlington, Vt.
Harold Lyman Williamson	Bristol, Vt.
Laforest Julian Wright	Lewiston, Me.

University of Vermont.

Instruction is given in the UNIVERSITY in—

I. The Course of Liberal Arts, which is the usual Collegiate Course in the Languages, ancient and modern, Mathematics, Physical Science, Mental, Moral and Political Philosophy, Rhetoric, Literature and History; leading to the degrees of Bachelor of Arts and Bachelor of Philosophy.

II. The Courses required (1) by the Morrill Act of 1892, which provides that instruction be given not only in "Classical and other scientific studies," but especially in "Branches of learning relating to Agriculture and the Mechanical Arts," and (2) by the Endowment Act of 1890, which provides for instruction in "Agriculture, the Mechanic Arts, the English Language, and the various branches of mathematical, physical natural and economical sciences, with special reference to their application in the industries of life." These courses are:

1. A Course in Theoretical and Applied Chemistry.
2. A Course in Civil and Sanitary Engineering.
3. A Course in Mechanic Arts.
4. A Course in Electrical Engineering.
5. A Course in Agriculture.

III. A new Department of Commerce and Economics has been recently added, designed to comprise specialized courses in economics, commercial geography, commercial law, the history of industrial development, statistics, and to some extent the details of industrial processes and business operations and methods, such as book-keeping, banking, and financing. The Department is open to those who have successfully completed for two years any of the courses in the University of Vermont (or their equivalents in other institutions) which include French, German and History.

Candidates may be admitted without examination if they bring certificates from reputable Preparatory Schools whose courses of study fully meet the requirements for admission, but students so admitted are on probation during the first year.

A course preparatory to the study of Medicine, embracing from two to three years, is offered, the particulars of which will be furnished on application.

All the courses in the Academic and Scientific Departments are open to young women upon the same conditions as to young men. The young women are required to room and board in private families approved by the faculty.

Scholarships, have been established for the benefit of young men of limited means, in the Academic Department.

The University enjoys unusual facilities for securing employment for students in the Engineering Department, both during the course and after its completion.

The Chemical Laboratory affords the amplest facilities for analytical work. Medical students, or persons who intend to engage in Pharmacy, may take a special Laboratory Course.

Furnished dormitories are rented to Academic students at from \$18 to \$60 per annum, including care. Table board may be had for \$2.50 to \$3.00 per week.

For further information or catalogue, address

C. W. DOTEN, Secretary.