1888

University of Vermont, College of Medicine Bulletin

University of Vermont

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THIRTY-FIFTH

ANNUAL ANNOUNCEMENT

OF THE

MEDICAL DEPARTMENT

UNIVERSITY OF VERMONT.

FOR THE YEAR 1888.

NEW COLLEGE BUILDING. SEATING CAPACITY 350.

Gift of the late JOHN P. HOWARD, of Burlington.
DESCRIPTION OF THE FLOOR PLANS OF THE NEW COLLEGE BUILDING.

FIRST FLOOR PLAN.
A. Office.
B. Students' Cloak Room and Post Office.
C. Museum.
D. Main Entrance.
E. E.E. Janitor's Apartments.
F. Private Entrance and to the Dissecting Room
L. Elevator.

SECOND FLOOR PLAN.
G. Private Room for Prof. of Surgery and Prof. of Obstetrics.
F. Private Room for Prof. of Theory and Practice of Medicine.
H. Materia Medica and Physiology Room.
L. Chemical Laboratory.
R. Amphitheatre.
M.N. Rooms for Laboratory Instruction.
L. Elevator.

DISSECTING ROOM PLAN.
L. Elevator to Dissecting Room.
S. Private Dissecting Room for Prof. of Anatomy.
T.T. Dissecting Tables for Students.
THIRTY-FIFTH

ANNUAL ANNOUNCEMENT

OF THE

Medical Department

OF THE

University of Vermont

AND

State Agricultural College,

Burlington, Vermont,

FOR THE YEAR 1888.
Faculty of Medicine.

MATTHEW HENRY BUCKHAM, D. D.,
Burlington, Vt., President.

JOHN ORDRONAUX, M. D., LL. D.,
New York City,
Emeritus Professor of Medical Jurisprudence.

ALBERT F. A. KING, A. M., M. D.,
Washington, D. C.,
Professor of Obstetrics and Diseases of Women.

ASHBEL PARMELEE GRINNELL, M. D.,
Burlington, Vt.,
Professor of the Theory and Practice of Medicine; Attending Physician to Mary Fletcher Hospital, and Dean of the Faculty.

RUDOLPH AUGUST WITTHAUS, A. M., M. D.,
New York City,
Professor of Chemistry and Toxicology.

J. HENRY JACKSON, A. M., M. D.,
Barre, Vt.,
Professor of Physiology and Microscopic Anatomy.

J. WILLISTON WRIGHT, A. M., M. D.,
New York City,
Professor of the Principles and Practice of Surgery. Consulting Surgeon to Mary Fletcher Hospital.

WILLIAM B. TOWLES, M. D.,
University of Virginia,
Professor of General and Special Anatomy.

J. H. WOODWARD, B. S., M. D.,
Burlington, Vt.,
Professor of Materia Medica and Therapeutics.
Professors of Special Subjects.

ROBERT WILLIAM TAYLOR, M. D., NEW YORK CITY,
Professor of Diseases of the Skin and Venereal Diseases.

STEPHEN MARTINDALE ROBERTS, A. M., M. D., NEW YORK CITY,
Professor of Diseases of Children.

ADRIAN THEODORE WOODWARD, M. D., BRANDON, VT.,
Professor of Surgical Diseases of Women.

AMBROSE L. RANNEY, A. M., M. D., NEW YORK CITY,
Professor of Diseases of the Mind and Nervous System.

WILLIAM OLIVER MOORE, M. D., NEW YORK CITY,
Professor of Diseases of the Eye and Ear.

WILDER L. BURNAP, A. M., BURLINGTON, VT.,
Professor of Medical Jurisprudence.

VOLNEY G. BARBOUR, Ph. B., BURLINGTON, VT.,
Professor of Sanitary Science.

A. M. PHELPS, M. D., NEW YORK CITY.
Professor of Orthopedic Surgery.

GEORGE B. HOPE, M. D., NEW YORK CITY.
Professor of Diseases of the Throat.

HENRY CRAIN TINKHAM, M. D., BURLINGTON, VT.,
Adjunct to the Chair of Anatomy and Demonstrator of Anatomy.

Faculty to Preliminary Session of 1888.

HIRAM HAYDEN ATWATER, A. M., M. D.,
Consulting Physician to Mary Fletcher Hospital;
Instructor in Obstetrics and Diseases of Women and Children.

PROF. A. P. GRINNELL, M. D.,
Attending Physician to Mary Fletcher Hospital;
Instructor in Theory and Practice of Medicine.

ANDREW J. WILLARD, A. M., M. D.,
Instructor in Chemistry and Toxicology, and Assistant to the Chair of Chemistry.

JOHN BROOKS WHEELER, M. D.,
Attending Surgeon to Mary Fletcher Hospital;
Instructor in Principles and Practice of Surgery.

JO HATCH LINSLEY, M. D., Burlington, VT.,
Instructor in Physiology and Microscopic Anatomy.

HENRY CRAIN TINKHAM, M. D., Burlington, VT.,
Instructor in Anatomy.

WM. B. GIBSON, M. D., C. M.,
Instructor in Materia Medica.
THE Medical Department of the University of Vermont and State Agricultural College was chartered by the State in 1823. This Department was organized on its present basis, in 1854, since which time lectures have been given, and classes graduated in medicine every year. The institution consequently is now one of the oldest Medical Colleges in the United States. Among the distinguished medical teachers who in former years have occupied chairs in the Medical Faculty, may be mentioned the late Prof. Nathan R. Smith, M. D., of Baltimore, Alonzo Clark; the late Drs. John Pomeroy, Nathan Smith, Wm. Paddock, S. W. Thayer, Dr. Bliss, Edward E. Phelps, Benjamin Lincoln, Horatio Nelson, Prof. Perkins and Orrin Smith; the late Prof. Wm. Darling, M. D., LL. D., F. R. C. S. (England); the late Prof. J. L. Little, M. D. of New York; others of professional eminence still living, who were formerly associated with the Medical Faculty, are as follows: Ordronaux, Hammond, Roosa, Dunster, Yale, Thomas Antisell of Washington, D. C., and Hon. Edward J. Phelps.

It has been the custom of the Medical Faculty to select from other institutions, and from all parts of the country, the best teachers that could be obtained, a custom which has been facilitated by the circumstance of the regular lecture sessions being held from March till July, when the lecturers from the large colleges of other cities, holding their lecture sessions only during the winter months, could thus be enabled to contribute their services to the University of Vermont. And the past history of the college and its present prosperity sufficiently demonstrate that this plan has been eminently successful. At no time since the organization of this Medical School have its prospects been more promising than at present. The session of 1888, being the thirty-fifth in number since the present organization of the college, will, it is anticipated, bring together a larger number of students than have assembled at any previous session, and the Medical Faculty will make every effort to provide a correspondingly improved course of instruction.

New College Building.

THE GIFT OF MR. JOHN P. HOWARD.

The New College Building, erected in 1884, is now complete. It is a substantial brick edifice, situated on Pearl street, in the City of Burlington, on the north side of and immediately overlooking the Col-
The lecture room amphitheatre will seat comfortably three hundred and fifty students.

The Laboratories for Practical Chemistry and Physiology, and the Dissecting Room for Practical Anatomy, are ample in size and supplied with all modern conveniences and apparatus that may be required for chemical experiments and physiological and anatomical demonstrations.

The College Museum is spacious, well lighted, and contains a large and carefully arranged collection of specimens and preparations—many of them rare,—illustrating both normal and abnormal structures. The museum is always open to inspection by the students.

The whole building is heated by steam, thoroughly ventilated, and, in all its appointments, admirably fitted for medical teaching.

As stated in former catalogues the funds for the erection of the new college were contributed by the late Mr. John Purple Howard, whose generous liberality is so well known and gratefully remembered by the people of Burlington. (It is said the aggregate of Mr. Howard's donations to various institutions in this city will reach nearly half a million dollars.)

Plan of Instruction.

The plan of instruction adopted by this Institution comprises a complete course of Scholastic Lectures upon the seven essential branches of Medical Science, viz: Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Surgery, Obstetrics, and the Theory and Practice of Medicine.

In order to render the several courses of instruction as thorough as possible, the Faculty have selected a number of medical gentlemen to lecture upon special subjects. Such parts of the regular course as are not taught in detail by the regular Professors will thus receive special attention from gentlemen who are acknowledged authorities in their respective specialties, each one giving a short and practical course of lectures.

This plan, which was adopted for the first time ten years ago, has been of great value to and is highly appreciated by the students, since it enables them to obtain a more exact practical knowledge of important subjects than they can receive from the general lecture course.


These lectures on special subjects are delivered during the regular session, without extra expense, and not in the preliminary term, as is the custom in most Colleges.
GENERAL OUTLINE OF THE COURSE OF LECTURES.

OBSTETRICS AND DISEASES OF WOMEN.

PROF. A. F. A. KING.

Prof. King holds the same Chair in the Columbian University, at Washington, D. C., and was for many years one of the attending physicians at the Providence Hospital in that city, and is now one of the attending physicians to the Children's Hospital.

His lectures, while presenting an outline of the whole Science and Art of Midwifery, are especially designed to convey a practical knowledge of the subject, and to render the difficult parts of it easily intelligible. To this end a large collection of full sized diagrams, with papier-maché models and natural preparations, are used for illustration. The mechanism of labor is demonstrated upon the manikin; and obstetrical instruments of all kinds are exhibited, and their uses explained. Mathieu's Improved Elastic Manikin, imported by the Faculty from Paris, is employed, with a recent foetal cadaver, for demonstrating obstetrical operations.

In the department of Gynaecology, all instruments and other appliances required in treating the Diseases of Women will be exhibited, together with a complete collection of colored diagrams illustrating the various pathological conditions of the female organs.

In this department Dr. King will be assisted by the Professor of Surgical Gynaecology, and the regular surgical clinics will enable the class to witness the various operations.

PRACTICE OF MEDICINE.

PROF. A. P. GRINNELL.

So far as possible, the instruction in this department will consist of clinical and didactic Lectures, given in such a manner as will best enable the student to become thoroughly acquainted with the symptoms, pathology, and treatment of disease, exhibiting the practical applications of remedies at the bedside.

The Hospital will supply a sufficient number of patients who will receive treatment before the class, giving the students the opportunity of witnessing the methods adopted for investigation of disease in practice. Morbid specimens, casts and diagrams will be employed to illustrate the Lectures.
CHEMISTRY AND TOXICOLOGY.
PROF. RUDOLPH A. WITTHAUS.

The instruction in this department will be adapted to the special requirements of the practitioner in medicine. The philosophy of Chemistry will be taught in such a manner as to afford the students a firm groundwork for the rational study of the subject. Those portions of practical chemistry having a direct bearing upon physiology, pathology and therapeutics will be particularly dwelt upon, to the exclusion of those portions which are of mere technical interest. The important application of chemistry to the science of poisons will receive particular attention.

In the new College building a commodious and well appointed practical laboratory has been provided, in which special instruction is given in the chemical manipulations required in the examination of Urine, in Toxicology, and in such analytical processes as are required of the physician.

PHYSIOLOGY AND MICROSCOPIC ANATOMY.
PROF. J. HENRY JACKSON.

The description of the functions of each organ and tissue is preceded by a careful examination of its minute structure. By the aid of lecture-room microscopes, sections of healthy tissues are exhibited to each student, and an opportunity is offered for special instruction in the preparation and mounting of specimens. Diagrams, models and charts furnish further help to a complete comprehension of the lectures. Such vivisections are given as can be shown with practical advantage to the whole class, and the teaching of the subject of Physiology has in view the elucidation of Pathology.

PRINCIPLES AND PRACTICE OF SURGERY.
PROF. J. WILLISTON WRIGHT.

The course on Surgery will consist in didactic and clinical lectures, illustrated by plates, diagrams and surgical apparatus in general. All of the more important surgical operations will be performed, on the cadaver, before the class. On Wednesday and Saturday of each week, during the surgical course, a clinic will be held in the large amphitheatre of the Mary Fletcher Hospital, where the abundant supply of material coming, as heretofore, from all parts of the State, will enable the student to witness a large number of the capital operations of surgery.

GENERAL, DESCRIPTIVE and SURGICAL ANATOMY.
PROF. WILLIAM B. TOWLES.

The lectures in this course will be fully illustrated by drawings, diagrams, models, preparations and dissections on the cadaver. The object
will be to render the instruction thoroughly practical, by as complete illustration as possible of the facts taught, and by frequent examinations in preparations and dissections.

MATERIA MEDICA AND THERAPEUTICS.

PROF. J. H. WOODWARD.

The scope of instruction in this department will embrace a thorough and practical study of those drugs which have a real therapeutic value. The medicinal and the toxic effects, and the therapeutic uses of each, will be discussed systematically, in such a manner that the student will receive a practical knowledge of the subject, founded on a scientific basis. The methods of medication, the principles and the practice of prescription-writing, and the therapeutic uses of heat, cold and electricity, will be taught during the course.

Lectures on Special Subjects.

The faculty being desirous of affording to the student every facility for the study of the various departments of medicine have established the following special courses, which will be extended hereafter, and it is believed that, with this addition to the regular curriculum, the advantages afforded by this College are unsurpassed by any medical institution outside of our large cities.

DISEASES OF THE SKIN.

Prof. Robert W. Taylor, one of the physicians to Charity Hospital, New York, whose labors in this department of medicine are well known to the profession, will deliver a course of lectures on this subject, illustrated by plates, diagrams, and microscopic specimens. He will also hold several clinics, thus giving the students an opportunity of becoming familiar with the latest views on the subject of Dermatology.

DISEASES OF CHILDREN.

Prof. Stephen M. Roberts will deliver a course of lectures on Diseases of Infancy and Childhood, a department of study generally either completely ignored, or but very superficially treated, although of the utmost importance to the practicing physician.

SURGICAL DISEASES OF WOMEN.

Prof. A. T. Woodward, of Brandon, Vt., will give during the first part of the session a course of lectures on the Surgical Diseases of Women. The
lectures will embrace subjects to which Dr. Woodward has for many years given special attention.

**DISEASES OF THE EYE AND EAR.**

Prof. William Oliver Moore, of New York City, will give a course of lectures on the Diseases of the Eye and Ear. He will hold daily clinics during his course, so that the student will be able to witness most of the important operations in this department.

**DISEASES OF THE MIND AND NERVOUS SYSTEM.**

The course of lectures on Diseases of the Mind and Nervous System will be delivered by Prof. Ambrose L. Ranney. The lectures will be both clinical and scholastic, and will have special reference to the improved methods of research and treatment established by the most recent investigations. Electricity, in its relation to the nervous system, both in health and disease, will be the subject of particular attention.

**MEDICAL JURISPRUDENCE.**

For many years the teaching of Medical Jurisprudence has been neglected in most of the Medical Colleges, but is now generally regarded as one of the essentials of a thorough professional education; and has properly been made compulsory in many States. Believing that a knowledge of the science is of prime importance to physicians, especially where medico-legal investigations require from them expert testimony, the faculty feel sure that in restoring the lectures in this department to the general curriculum of study, they have added materially to its importance and completeness.

The legal attainments and character of the gentleman who now holds the chair upon this subject, is sufficient guarantee that the course will be thorough and practical.

**SANITARY SCIENCE.**

The subjects of the proposed course of lectures are the ventilation and warming of buildings, the principles of house drainage, the proper arrangement of soil and waste pipes, the various plumbing fixtures, the methods of testing complete work, the sewerage of cities and towns, and the methods employed for the removal and disposal of sewerage.

**DISEASES OF THE THROAT AND NOSE.**

Prof. George B. Hope will deliver a course of ten lectures on Diseases of the Throat and Nose. At his clinic, demonstrations will be given, and Laryngoscopy and Rhinoscopy taught.
ORTHOPÆDIC SURGERY.

Prof. A. M. Phelps, who has for many years been occupied in the treatment of deformities, diseases of the spine and joints, and who has devoted a great deal of time to this branch of surgery in the hospitals of Europe, will deliver a course on Orthopaedic Surgery, exhibiting at his clinics the practical use of apparatus.

CLINICAL ADVANTAGES.

THE MARY FLETCHER HOSPITAL,

Erected solely by the generosity of the lady whose honored name it bears, was opened ten years ago for the reception of patients. At the time of its construction, Miss Fletcher added to the Hospital Buildings a splendid amphitheatre, specially adopted to Clinical teaching, and designed to offer additional advantages in the way of Clinical instruction to the Medical Students of this College, a purpose which has been fully realized and for which Students and Faculty are alike grateful to the respected donor.

An additional pavilion ward, now in course of erection, will, it is understood, be used as a Lying-in ward and for Gynaecological cases, and by which it is anticipated opportunity may be afforded for Clinical instruction in Obstetrics to at least a part of the second and third year students.

This Hospital consists of a large and elegant administrative building, with a large number of rooms for private patients, and two large pavilion wards. In a separate building, connecting with the wards and administrative building by a corridor, is a large amphitheatre, capable of seating two hundred persons. There are also an anaesthetizing 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 found here.

In the amphitheatre, Medical and Surgical Clinics will be held during the regular session, to which all the students are admitted without extra charge.

There is also a Pathological Room capable of seating about one hundred students. Here, during the session, all the post-mortem examination will be held in the presence of the class, and lectures will be delivered on Pathological Anatomy and Histology.

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

*Consulting Physician:* Prof. A. M. Phelps
*Consulting Surgeons:*
  Prof. J. Henry Jackson,
  Prof. J. W. Wright.
*Attending Physician:* Prof. A. P. Grinnell,
*Attending Surgeon:* Dr. J. B. Wheeler.
COLLEGE CLINICS.

The following College Clinics will be held during the regular term. Patients presenting themselves at these Clinics for advice and treatment are examined, the peculiarities of each case are explained, the appropriate treatment is prescribed, and the requisite surgical operations are performed before the class.

A Medical Clinic will be held on Wednesday by Prof. Grinnell during the first half of the term.

A Surgical Clinic will be held by Prof. Wright every Saturday morning, from 9 to 12 o'clock, and every Wednesday afternoon from 3 to 4 o'clock, during the latter half of the session. A large number of surgical operations will be performed at these Clinics.

A Clinic for Diseases of the Eye and Ear, by Dr. Moore, will be held during his course of lectures.

A Clinic for Diseases of the Skin, by Prof. Taylor, will be held during his course of lectures.

A Clinic for Diseases of Children will be held by Prof. Roberts.

A Clinic for Diseases of the Nervous System will be held during Prof. Ranney's course of lectures.

A Clinic for the treatment of Deformities will be held by Prof. Phelps.

A Clinic for Diseases of the Throat will be held by Prof. Hope.

Due notice of the time of holding the above Clinics will be given.

Special Practical Instruction.

Courses in practical manipulation and study are advised as supplemental to the regular methods of scholastic and clinical teaching, with a view to more perfectly drilling the student in the actual performance of the various methods of diagnosis and treatment employed by the physician.

Students may avail themselves of the following private courses offered in connection with this institution; but it is optional, except in Practical Anatomy, with the student which, if any, of these courses he shall follow.

PRACTICAL ANATOMY.

H. C. Tinkham, M. D., Demonstrator of Anatomy.

As a thorough knowledge of Anatomy is only to be obtained by dissection, every student is strongly recommended by the Faculty to dissect as much as possible during his course of study. The dissecting room of the
new College is large, commodious, well ventilated and lighted. Material is furnished free. The Demonstrator will be in daily attendance during the regular and preliminary terms.

The practical Anatomy fee of $10.00 includes material and entitles each student to all the advantages of the dissecting room during the Winter and Spring Course without further charge. Every new matriculant will be required to take out the practical Anatomy ticket either in the preliminary or regular term, and this entitles him to the privileges of the dissecting room at all times without further expense.

**URINARY ANALYSIS.**

R. A. Witthaus, M. D., *Professor of Chemistry.*

Jo H. Linsley, M. D., *Laboratory Instructor.*

Instruction in Practical Urinary Analysis will be given during the preliminary and regular terms, under the supervision of the Professor of Chemistry. It is recommended that those attending the preliminary term take this course at that time.

*Fee* $10.00 (including the cost of material.)

**OBSTETRICS.**

A. F. A. King, M. D., *Professor of Obstetrics, Etc.*

A course of practical instruction on the Manikin will be given to those who may desire it.

*Fee* $5.00.

**PHYSICAL DIAGNOSIS.**

A. P. Grinnell, M. D., *Professor of Physical Diagnosis.*

Students in this course will have the opportunity to examine cases and make diagnoses.

*Fee* $8.00. Ten lessons.

**MICROSCOPY.**

J. H. Jackson, M. D., *Professor of Physiology and Microscopic Anatomy.*

Instruction in the use of the microscope and in the preparation and mounting of normal and pathological specimens, and of urinary deposits, will be given in the recently established physiological laboratory, during the preliminary and regular terms, by the professor of this branch in person, or by Jo H. Linsley, M. D., Instructor in Physiology.

*Fee* $10.00 (including the cost of material.)
MINOR SURGERY AND BANDAGING.

J. B. Wheeler, M. D., Instructor in Surgery.

Practical instruction on this subject embraces the application of bandages, the various methods of dressing used in the treatment of wounds, fractures and dislocations, etc.
Fee $5.00.

DISEASES OF THE THROAT AND NOSE.

Prof. Geo. B. Hope.

A special class will be formed for practical instruction in the Examination and Treatment of Diseases of the Throat.
Fee $5.00.

OPERATIVE SURGERY.

J. B. Wheeler, M. D., Instructor in Surgery.

Students will be instructed in the various operations upon the cadaver.
Fee $15.00.

PHYSICAL EXAMINATION OF THE EYE AND EAR.

W. O. Moore, M. D., Professor of Diseases of the Eye and Ear.

The teaching on these subjects will include instruction in the use of the ophthalmoscope, and of the instruments used in examination of the ear.
Fee $5.00.

Requirements for Graduation.

Candidates for the degree of Doctor of Medicine, before presenting themselves for examination must have attended at least two full courses of lectures of twenty weeks duration each, the latter at this college. The candidate must have studied medicine three years, must have attained the age of twenty-one years, and must present full certificates of the time of his 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, and to furnish evidence of having pursued the study of practical anatomy under the direction of a demonstrator. He must also pass a satisfactory written or oral examination before the medical Faculty and Board of Medical Examiners appointed by the State Medical Society. No thesis is required.
Two full courses of lectures of at least twenty weeks each are absolutely required, and no period of practice will be taken as an equivalent of one course.

The only courses of lectures recognized by this Faculty are those taken at Medical Colleges recognized by the American Medical Association. The tickets and diplomas of Eclectic, Homeopathic, or Botanic colleges, or of colleges devoted to any special system of medicine, are considered irregular, and will not be recognized under any circumstances. Certificates from preceptors who practice any particular system of medicine, or who advertise, or violate in any way the Code of Ethics adopted by the profession, will not be received under any circumstances, even if the preceptors be regular graduates in medicine.

Graduates of other regular colleges who desire a degree from this University must pass a satisfactory examination in the branches of Anatomy, Physiology, Chemistry, Materia Medica, Practice of Medicine, Surgery and Obstetrics. No thesis is required.

British registered practitioners who are legally qualified to practice both medicine and surgery, of good standing and furnished with proper credentials, who are medical graduates of a university of Great Britain or Ireland, or licentiates, members or fellows of a royal college of physicians or surgeons of Great Britain or Ireland, will be allowed to proceed to the Medical Degree in this University upon passing a satisfactory examination in the branches of Anatomy, Physiology, Chemistry, Materia Medica, Practice of Medicine, Surgery and Obstetrics, and upon payment of the required fee. Residence is not required from foreign candidates for the degree of Doctor of Medicine, who must, however, appear in person for examination between July 12th and July 18th. Degrees in absentia are not conferred by this University under any circumstances whatsoever.

SPECIAL EXAMINATIONS IN THE ELEMENTARY DEPARTMENTS.

Students who have attended two full courses of lectures in all departments taught in the College, may be examined upon Anatomy, Physiology, Chemistry, and Materia Medica at the end of the second course, and if they be successful in these examinations will be examined at the end of the third course upon Practice of Medicine, Surgery and Obstetrics only. Candidates for the primary examinations will be required to pay three-fifths of the examination fee. The primary examinations are held at the close of the regular session only. The certificate and the remainder of the examination fee are to be handed to the Secretary at the regular time before the final examination. Students who have passed the primary examinations are required to attend another full course of lectures before they can be admitted to their final examinations. Students who desire to graduate by passing the primary examination, and afterwards the final examination
upon the three practical departments, must attend three full courses of lectures. Certificates of having passed in any branch or branches in other Colleges are not accepted by this College.

REGULAR TERM.

THE REGULAR WINTER COURSE OF LECTURES.

The session of 1888 will commence on the first Thursday of March, and will continue twenty weeks. This course will consist of from five to six lectures daily, in the various departments of Medicine and Surgery. The regular term opens the first Thursday in March each year.

FEES FOR THE REGULAR SESSION.

Matriculation Fee,—Payable Each Term, $ 5.00
Fees for the Full Course of Lectures by all the Professors, 75.00
Single Tickets, 12.00
Perpetual Ticket, good for any number of Regular Courses, 125.00
Examination Fee, (payable once only and not returnable), 25.00
Examination Fee, Primary Branches, (payable once only and not returnable), 15.00
Examination Fee, Final Branches, (payable once only and not returnable), 10.00
Demonstrator's Fee, required of every new matriculant, (including Dissecting Material, payable but once), 10.00

Students who have already attended two full courses of lectures in some other regular school or schools, are admitted on paying the matriculation fee and $40.00.

Students who have attended one full course in this College and one full course in some other regular Medical School, are admitted on paying the matriculation fee and $25.00.

Students who have attended two full courses in this College are admitted to subsequent courses on payment of the matriculation fee only.

Graduates of less than five years standing of other regular American Medical Schools are admitted on payment of the matriculation fee and $25.00.

Foreign applicants (see page 14) for the Medical Degree of this University, are admitted on payment of a fee of eight guineas.

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.
GRADUATES, 1887.

Avery, Leslie Jason L. ........................................ New York.
Baer, Daniel Christopher ........................................ Illinois.
Bartlett, Fred Oscar ........................................ Maine.
Beattie, Franklin T ........................................ New York.
Bellerose, Joseph H. Maynard .................................. Massachusetts.
Blanchard, James Franklin .................................. New Hampshire.
Bronson, Henry ............................................... New York.
Brooks, James Fenner ........................................ New York.
Burdick, Villanova Mason .................................. Maine.
Chattle, Thomas Helster ..................................... New Jersey.
Cheney, Albertus Allen ..................................... Vermont.
Cheney, Jonathan Morrison ................................ New Hampshire.
Clough, Levi Willard ....................................... New Hampshire.
Coad, Nicholas Guy O. ....................................... Iowa.
Crocker, Willard Crafts .................................. Massachusetts.
Crossman, Edgar Orrin ........................................ Massachusetts.
DeBeck, Sidney Sumner ................................... Maine.
Dodge, Henry ............................................... New Hampshire.
Doherty, John William ...................................... New York.
Egert, Philip Merriman ...................................... New York.
Gidley, Fenton I ........................................ New York.
Goodwin, Frederick Abbott ................................ Vermont.
Hupfeld, Henry Ludwig ........................................ New York.
Joslin, George Harry ........................................ Vermont.
Lagace, Alfred Joseph ....................................... Canada.
Liddle, Frederick C ........................................ New York.
Mack, Edwin Benjamin ....................................... Vermont.
Maloney, William Edward .................................. Massachusetts.
Matthews, Joseph B .......................................... Maryland.
McKenna, Ephraim Daniel .................................. New York.
Mead, Sidney Walker .......................................... New York.
Morgan, Field Chilson ........................................ Vermont.
Nutter, William Dennett .................................. Canada.
O'Brien, John Charles ........................................ Vermont.
O'Ready, James ............................................... Canada.
Parham, George Herbert ..................................... Canada.
Pease, Byron Douglass ................................... Connecticut.
Pease, Seth Jr ............................................... Connecticut.
Peck, Albert Fred ........................................... Vermont.
Page, Kingman Benjamin .................................. New York.
Severance, Charles Morris ................................ Maine.
Spoor, James Noble .......................................... New York.
Stanhope, Alvin Hatch ........................................ Maine.
Stebenne, Eustache .......................................... Canada.
Swain, John Harrison ....................................... Colorado.
Vrooman, Alfred Scholl .................................... New York.
Ward, Henry Samuel ......................................... Vermont.
Watson, Elliot Burnham .................................. Vermont.
Watson, Horace Londus ...................................... Vermont.
### MEDICAL CLASS, 1887.

<table>
<thead>
<tr>
<th>NAME</th>
<th>RESIDENCE</th>
<th>PRECEPTOR</th>
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<td>A. S. Ayers</td>
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To the Vermont Medical Society.

MR. CHAIRMAN AND GENTLEMEN:—

Your delegates to the Medical Department of the University of Vermont, attended the final examination of candidates for the degree of M. D., at the Medical College, on the 13th, 14th and 15th of July, 1887.

Seventy-nine candidates presented themselves for examination, seven of whom were examined on the four preliminary branches only, two others withdrew, and of the remaining seventy, fifty-three passed satisfactory examinations and were given their degree.

The examinations in Surgery and Chemistry were written, and two hours time were allowed for answering the questions on each branch. We had abundant opportunity to examine the written papers of the candidates and their standing as marked by the Professors. Lest any one may think that the examinations were easy in either of these branches, we append hereto a copy of the questions used.

We were present at the oral examinations in Anatomy of twenty candidates, in Physiology twenty-eight, in Materia Medica eighteen, in Practice twenty-one, and in Obstetrics and Gynaecology twenty-five.

We were courteously received in every department and given every opportunity to satisfy ourselves in regard to the qualifications of candidates, even to the extent of examining and marking.

The examinations were thorough and practical, and conducted in a manner calculated to ascertain the practical knowledge of the students, and in the opinion of your delegates, no one received a diploma without first proving himself worthy and well qualified.

We also examined the Preceptor's Certificates and satisfied ourselves that no student was admitted to examinations without first presenting tickets showing that he had attended two full courses of lectures, and also presenting a certificate of good moral character, being twenty one years of age and having studied Medicine three full years, signed by reputable physicians, so if graduates are deficient in any of the above qualifications, the blame lies with their preceptors and not with the college.

That the Medical Department of the U. V. M. is entitled to the most cordial support of the profession in the State, must be evident to any unprejudiced person who chooses to investigate the advantages that it has to offer to students, and in the opinion of your delegates it is largely due to the executive ability of the present management that the school numbers among its professors, men who occupy a place in the front rank of the profession, and also occupy chairs in the largest medical schools of the country; also, that there are so many professors on special branches giving
lectures, chiefly clinical, on their respective specialties. Coupling these facts with the clinical advantages offered by the Mary Fletcher Hospital, it is easy to understand how the school has risen in popularity from a class numbering less than fifty in 1868, largely composed of Vermont students, to a class of two hundred representing twenty-seven states and territories, and Canada, and to a position that is second to none of our metropolitian schools. At no time in the history of this institution has it been so well equipped for thorough work as at the present time.

A marked difference was to be seen in the examinations of students who had attended the preliminary course in addition to the regular courses.

In order that members of the society may obtain some idea of the examination required, we append to the report the questions in Surgery and Chemistry.

WRITTEN EXAMINATION IN SURGERY.

1. In a stab wound of an artery, at what point would you ligate the injured vessel, and why? How many ligatures would you employ and what material would you select for a ligature?
2. Give a brief account of Ulceration, Gangrene, Caries and Necrosis.
3. Give the symptoms and treatment of a strangulated inguinal Hernia.
4. What tissues are divided in the lateral operation for Stone in the Bladder?
5. Give the chief points in differential diagnosis between Hydrocele, Hæmatocele and Varicocele.
6. What means are employed for controlling Hemorrhage during surgical operations?
7. What is Dugas' test for dislocation at the shoulder joint?
8. Give the chief varieties of Fistula of the Anus, with treatment.
9. Name the chief varieties of Club Foot, and state what tendons are shortened in each.
10. Describe an excision at the Shoulder Joint, or an amputation at the knee joint.

J. W. WRIGHT, M. D.

EXAMINATION IN CHEMISTRY.

1. What is the weight of 700 cubic centimeters of a liquid whose specific gravity is 1023?
2. Complete the following equations and correct any errors which they may contain:

\[ \begin{align*}
H_2SO_4 + KO &= \\
HNOS + CaO &= \\
MgSO_4 + Ba(NO_3)_2 &= \\
KO + CuSO_4 &= \\
HgCl_2 + AgNO_3 &= \\
\end{align*} \]

State the proportions by weight necessary in the first equation to secure complete neutralization.

3. Describe the tests for ferrous and ferric salts.

4. Explain the conversion of ethyl alcohol into ethyl ether. Give the properties of the latter. What are simple, mixed and compound ethers?

5. How may arsenic be detected in the urine? What is the antidote for arsenical poisoning and how is it prepared?

6. Give the formulæ and names of the oxyacids of phosphorus and of their sodium salts.

7. Describe the tests for morphine and for strychnine.

8. Explain the action of \( CO \) on the economy and the difference between its action and that of \( CO_2 \).

R. A. WITTHAUS, M. D.

In addition to this examination there was a laboratory examination in practical analysis.

Very respectfully submitted,

A. B. SOMERS.
F. R. STODDARD.
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