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University of Vermont, College of Medicine Bulletin

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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.
I. 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-SIXTH
ANNUAL ANNOUNCEMENT
OF THE
MEDICAL DEPARTMENT
OF THE
UNIVERSITY OF VERMONT
AND
STATE AGRICULTURAL COLLEGE,
Burlington, Vermont,
FOR THE YEAR 1889.
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.

J. WILLISTON WRIGHT, A. M., M. D.,
NEW YORK CITY,
*Emeritus Professor of the Principles and Practice of Surgery.

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. B., M. D.,
NEW YORK CITY,
Professor of Chemistry and Toxicology.

J. HENRY JACKSON, A. B., M. D.,
BARR, VT.,
Professor of Physiology and Microscopic Anatomy.

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;
Consulting Surgeon to Mary Fletcher Hospital.

*On account of continued illness Prof. Wright has been obliged to withdraw from the present session. His successor will be announced later.
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, A. M., M. D., Brandon Vt.,
Professor of Surgical Diseases of Women.

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.

A. M. PHELPS, M. D., New York City,
Professor of Orthopaedic Surgery.

GEORGE B. HOPE, M. D., New York City,
Professor of Diseases of the Throat.

ANDREW J. WILLARD, A. M., M. D., Burlington, Vt.,
Professor of Sanitary Science and Hygiene.

E. D. FISHER, M. D., New York City,
Professor of Diseases of the Mind and Nervous System.

HENRY CRAIN TINKHAM, M. D., Burlington, Vt.,
Adjunct to the Chair of Anatomy and Demonstrator of Anatomy.

FACULTY TO PRELIMINARY SESSION, 1889.

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

J. H. WOODWARD, B. S., M. D.
Instructor in Materia Medica and Therapeutics;
Consulting Surgeon to Mary Fletcher Hospital.

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

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

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

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

WM. B. GIBSON, M. D., C. M.,
Instructor in Obstetrics and Diseases of Women and Children;
Attending Physician to Mary Fletcher Hospital.
ANNUAL ANNOUNCEMENT.

1888.

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 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: Hammond, Ordronaux, Roosa, Dunster, Yale, Thomas Antisell of Washington, D. C., Hon. Edward J. Phelps, and A. L. Ranney.

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 circumstances of the regular lecture sessions being held from March to 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 1889, being the thirty-sixth 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 College Park. 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-mâché 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 fetal cadaver, for demonstrating obstetrical operations.

In the department of Gynæcology 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 Gynæcology, 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 application 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.

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. No extra charge is made for attendance upon these special lectures.

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.
DISEASE 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. E. D. Fisher of New York. 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.

PROF. WILDER L. BURNAP.

For many years the teaching of Medical Jurisprudence has been neglected in most of the Medical Colleges, but of late there has been a growing conviction that a knowledge of the legal side of this subject is one of the essentials of a thorough professional education; and it has properly been made compulsory in many States.

Believing a knowledge of this science to be of prime importance to physicians, especially where medico-legal investigation require from them expert testimony, the Faculty a few years since restored the lectures in this department to the general curriculum of study, and the great interest shown in the subject by the students as well as the practical and instructive character of the lectures, have convinced all that they have thereby added materially to the importance and completeness of the course.

SANITARY SCIENCE AND HYGIENE.

PROF. ANDREW J. WILLARD.

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 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.

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CLINICAL ADVANTAGES.

THE MARY FLETCHER HOSPITAL,

Erected solely by the generosity of the lady whose honored name it bears, was opened eleven years ago for the reception of patients. At the time of its construction, Miss Fletcher added to the Hospital Buildings a splendid amphitheatre, specially adapted 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 erected, will, it is understood, be used as a Lying-in ward and for Gynecological cases, and it is anticipated an 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 anesthetizing 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 examinations 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 Surgeons: 
Prof. J. W. Wright.
Prof. J. H. Woodward.

Attending Physicians:  
Prof. A. P. Grinnell, Dr. J. B. Wheeler.
Dr. Wm. B. Gibson.
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 Profs. Grinnell or Woodward 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 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.

THE FOLLOWING LISTS OF OPERATIONS WILL GIVE SOME IDEA OF THE EXTENT OF THE SURGICAL CLINICS HELD DURING THE SESSION OF 1888:

- Abscess, Psoas.
- Amputation, Thigh.
- Angioma, 2.
- Circumcision, 3.
- Epithelioma, Anus.
- Epithelioma, Cheek.
- Epithelioma, Lip.
- Fistula, Anal.
- Gastrostomy for Æsophageal Stricture.
- Hare Lip.
- Hernia, Inguinal, Radical cure of.
- Hydrocele, 2.
- Plastic operation on neck for unsightly cicatrix.
- Plastic operation on mouth for unsightly cicatrix.
- Pereneorraphy.
- Tumor—Lympho—Sarcoma—neck.
- Tumor — Fibroid — Sub-mucous — Uterus.
- Tumor—Sarcoma, Testicle.
- Tonsilotomy, 2.
- Urethrotomy—External Perineal.
OPHTHALMIC CLINIC.

Strabismus, 6.
Lentcoma Adherens, 3.
Choroiditis, 2.
Conjunctivitis, Ac. & Ch., 3.
Enucleation.
Hydrophthalmos with Ciliary Staphylooma.
Corneal Ulcer, 2.
Pterygium, 3.
Symblepharon.
Cataract Extractions, 6.
Mandæ Cornea.
Glioma Retinae.
Ectropion.
Ptosis (Congenital).
Foreign body in Ear.
Otitis Media Chronica.
Catarrhal Otitis, 2.
Myopia (Ast).
Glaucoma.
Dislocation of Lens.
Lachrymal Abscess.
Irrido-Choroiditis.
Asthenopia.

Special Practical Instruction.

Courses in practical manipulations 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 course offered in connection with this institution; but it is optional with the student, except in Practical Anatomy, 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 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, except slides and cover glasses.)

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.

OPERATIVE SURGERY FOR PRACTITIONERS.

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

A course of practical instruction in surgical operations upon the cadaver will be given, for the benefit of practitioners of medicine. This course is designed to give the general practitioner an opportunity of familiarizing himself with the practical details of Operative Surgery. It will consist of demonstrations, by the instructor, of the various surgical operations, and of their performance upon the cadaver by the members of the class.

The course will be held in the month of December, and will last two weeks.
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 Dean 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 accepted 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 an 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 5th and July 13th. 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 Dean 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 1889 will commence on the last Thursday of February, and will continue twenty weeks. This course will consist of from five to six lectures daily, in the various departments of Medicine and Surgery.

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

Foreign applicants (see page 17) 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.
Preliminary Term to Session of 1889.

RECITATIONS AND LECTURES.

A Preliminary Course of Lectures and Recitations on Anatomy, Physiology, Chemistry, Materia Medica, Surgery, Obstetrics, the Principles and Practice of Medicine, Diseases of Women, and their auxiliary branches, will be given, commencing on the first Thursday of November each year, and continuing until the following March. Opportunity will be offered for private dissection. Material will be furnished at cost. Daily demonstrations will be made by the Instructor of Anatomy. The fee for the above course is $35.

Attendance upon this term is optional with the student, and it is not reckoned as a Course of Lectures. Students, however, are earnestly advised to attend, as they are thus better prepared to comprehend the lectures in the Regular Course.

CORPS OF INSTRUCTORS.

Prof. A. P. Grinnell, Theory and Practice.
Prof. J. H. Woodward, Materia Medica and Therapeutics.
Dr. A. J. Willard, Chemistry.
Dr. J. H. Linsley, Physiology and Microscopic Anatomy.
Dr. John B. Wheeler, Surgery.
Dr. H. C. Tinkham, Anatomy.
Dr. Wm. B. Gibson, Obstetrics and Diseases of Women and Children.

Letters requiring information should be directed to
Prof. A. P. Grinnell, Burlington, Vt.,
Dean of the Faculty.

Or to Dr. H. C. Tinkham,
Secretary of the Preliminary Course.

FACULTY PRIZES.

To take the place of the prizes which have heretofore been open to the graduating class, the Faculty have established two prizes for general proficiency in examination—a First Prize of Fifty Dollars, and a Second Prize of Twenty-five Dollars. These prizes will hereafter be awarded as follows:

The ten students who pass the best examinations for their degree will be allowed to compete in a written examination for the prizes; of this number the five who pass most perfectly shall be called Honor Men, and will each receive a Special Diploma of Honor, and of these last those who are deemed worthy shall receive respectively the first and second prizes.
The Honor Men for the Class of 1888 were:
First Prize—E. H. Johnson.
Second Prize—W. D. Williamson.

BOARD.

Board may be obtained for from $3.50 to $5.00 per week. Good accommodations furnished 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 half fare on all railroad and steamboat lines running into Burlington.

TEXT BOOKS
AND WORKS OF REFERENCE.

The work first named on each subject is preferred.


On Physiology:—Yeo's Manual of Physiology, Dalton's Human Physiology, Foster, Flint's.


On Theory and Practice:—Loomis, Flint, Roberts, Tanner, Watson, Reynolds, Pepper, Niemeyer, Delafield's Post Mortem Examinations.


On Diseases of Women:—Thomas, or Barnes, Byford, 3d edition, Edis, Munde's Minor Surgical Gynecology.


On Surgery:—Bryant, Druitt (Eng. Ed.), Gross, Paget's Surgical Pathology, Billroth's Surgical Pathology, Heath's Minor Surgery and Bandaging, Ranney's Surgical Diagnosis.

On Diseases of the Urinary Organs:—Bumstead & Taylor, Gouley, Van Buren & Keyes.

On Diseases of the Eye and Ear:—Roosa on Diseases of the Ear, Lawson on Diseases of the Eye; Stellwag on Diseases of the Eye.

On Medical Jurisprudence:—Wharton & Stille, Ordronaux, Peck, Taylor.

On Diseases of Children:—Steiner, Smith, Day.

On Diseases of the Skin:—Fox, Piffard, Liveing.

On Diseases of the Nervous System:—Hammond.

For Reference:—Dunglison's Medical Dictionary.
GRADUATES, 1888.

VALEDICTORIAN, GEORGE HENRY FISHER.

Arthur Spencer Ayres, ........................................ Massachusetts
George Stryker Baldwin, ........................................ New York
Clayton Witters Bartlett, ........................................ Vermont
John H Buchanan, ........................................ Canada
Frank Horace Clapp, ........................................ Vermont
Almon Cooper, ........................................ Maine
Curtis Briggs Cotton, ........................................ New Hampshire
John Wesley Cram, ........................................ New Hampshire
Edwin Taylor Davis, ........................................ Vermont
Elmer Eliworth Dean, ........................................ Vermont
Charles Ransom Draper, ........................................ Vermont
Nathaniel Duffy, ........................................ New Brunswick
Charles Edward Elliott, ........................................ Canada
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Frederick Daniel Falby, ....................................... Vermont
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John Mitchell Gibson, ........................................ Massachusetts
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Thomas Hall Shastid, ........................................ Illinois
George Wesley Shattuck, ..................................... New Hampshire
Dickran Torrouse Tabbalian, ................................ Turkey In Asia
Edward Clarence Traver, ..................................... New York
Samuel Rice Upham, ........................................ New Hampshire
Levi Franklin Wagner, ........................................ Pennsylvania
Edward Forrest White, ....................................... Massachusetts
John Jay Willard, ........................................ Vermont
Walter Darwin Williamson, ................................ New Hampshire
Johnson Rufus Woodward, .................................. Vermont
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<td>Glens Falls, N. Y.</td>
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<td>Ansonia, Conn</td>
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To the Vermont Medical Society.

Mr. President and Members of the Vermont Medical Society:

We, as delegates from this Society, received due notice of the examination of candidates for the degree of M. D. from the University of Vermont. The time required for these examinations was nearly a week, two days of said time we spent in listening to the oral examinations and asking such questions as we desired, and examining the written work and the markings of the Professors. The result was sufficient to convince us that the students were well taught, and that the examinations were thorough and impartial, so much so that several applicants failed to get a sufficient number of votes to receive a diploma.

To illustrate, Prof. Towle's examinations in anatomy occupied fifty-six hours in all, while his whole course of lectures upon this subject required only sixty-six hours; his plan was to receive his applicant in the anatomical room, cadaver and specimens upon the table, and have him proceed to point out many of the essential parts, giving the origin, insertion and relation of each, thus testing his actual knowledge, aside from mere memorizing. Also Prof. King's examinations were of a similar character. The student was required to operate upon the manikin, for the various presentations in difficult labor, and give the treatment most approved in puerperal diseases.

We were also present at some of Prof. Grinnell's examinations in which we participated and saw his markings. His questioning was fair and to answer them correctly would require a good, general knowledge of Theory and Practice and they would have been able to acquit themselves as reputable practitioners. The other Professors had left, but we saw their questions and written work of the students and the markings. Many of these questions in Chemistry were abstruse and would require a thorough knowledge of the subjects to be able to answer them. Some of the applicants fell short and were rejected. Many of them, however, passed a creditable examination. Upon the whole, your delegates are of the opinion that this college is teaching very thoroughly more thoroughly than formerly and has raised the standard of graduation. Indeed we can see a marked change in this respect since we served you in this capacity before. We think the advantages of the Mary Fletcher Hospital and elaborate museum and facilities for teaching are equally good with any other country college.

Respectfully submitted,

S. S. CLARK, M. D.;
F. L. LADUE, M. D.
THE FOLLOWING QUESTIONS WERE GIVEN TO THE CANDIDATES FOR GRADUATION IN THE WRITTEN EXAMINATIONS, SESSION OF 1888.

The examinations in Obstetrics were conducted orally and upon the Manikin.

The examinations in Anatomy were conducted upon the Cadaver.

The examinations in Theory and Practice were both oral and written.

The examinations in Chemistry were partly written and partly by laboratory work in analysis.

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EXAMINATIONS IN PHYSIOLOGY AND MICROSCOPIC ANATOMY.

PROF. J. HENRY JACKSON.

HISTOLOGY.

1. Give the classification of tissues, and the minute anatomy of bone muscle and nerve.
2. Describe the different kinds of epithelium, and mention examples of each.
3. Give minute structure of the medulla spinalis, and name its reflex centers.

PHYSIOLOGY.

4. Give the uses of the medulla oblongata, and the functions over which it presides.
5. Trace the blood from the portal vein to the left ventricle, and describe the changes which it undergoes.
6. Describe the secretions found in the duodenum, and give their uses.
7. Trace an impression from the right index finger to the cerebrum, and a motor impulse back to the right hand.
8. Describe the function of hearing.
9. Give examples of nitrogenized foods, and tell how they are digested, absorbed and excreted.
10. Describe the fluid secreted by the testicles, and trace it to the meatus urinarius.
11. Describe protoplasm, where is it found and what are its uses?

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EXAMINATION IN CHEMISTRY AND TOXICOLOGY.

PROF. R. A. WITTHAUS.

1. Enumerate the units of metric weight and linear measure and their sub-divisions.
2. Define the following terms: Absolute weight, specific gravity, physical solution, chemical solution, electrolysis, deliquescence, efflorescence, synthesis, analysis, allotropy.
3. Describe briefly the manufacture of sulphuric acid, giving equations. Give a test for the soluble sulphates.
4. What are poisons and corrosives? Describe the symptoms, treatment and modes of death in corrosion by the strong mineral acids.
5. Name the elements classified in each of the first three groups of the acidulous class. Give their symbols, valences, atomic and molecular weights; the nature of their hydrogen compounds and the basicities of their oxyacids.

6. Explain by formulæ (typical or graphic) the relations to each other of ethylic alcohol, ethylic ether, acetic acid, aldehyde, chloral, sulphoacetic acid and ethyl sulphate.

7. Describe the symptoms, treatment and modes of death in poisoning by strychnine; and the tests for that alkaloid.

8. How is "antifebrine" related to benzol and to aniline?

9. The Ptomaines: where and when are they found and what influence have they upon modern views of the etiology of disease and upon toxicology.

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EXAMINATION IN MATERIA MEDICA AND THERAPEUTICS.

PROF. J. H. WOODWARD.

1. What is a Fluid Extract?

2. What conditions modify the size of the dose of a medicine?

3. Give the Latin name and the dose of each of the following drugs:
   - Arsenious Acid; Diluted Hydrocyanic Acid; Tincture of Veratum Viride; Extract of Cannabis Indica; Extract of Nux Vomica; Laudanum; Sulphate of Morphone; Sulphate of Strychnine; Sulphate of Atropine; Hydrochlorate of Pilocarpine.

4. State the Physiological effects and the Therapeutic uses of Digitalis; mention two preparations of it, and give the dose of each.

5. State the dose, the Physiological effects and the Therapeutic uses of Chloral.


7. How would you produce anaesthesia by Cocaine for amputation of a finger?

8. Give the symptoms and treatment of acute poisoning by opium.

9. Write a prescription for 12 laxative pills, each to contain powdered Ipecac, resin of Podophyllum and Aloes.

10. Write a prescription for a diuretic mixture to be used in acute Bright's Disease.

11. What are the local effects of Atropine Sulphas on the eye and how are they produced?

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EXAMINATIONS IN THEORY AND PRACTICE.

PROF. A. P. GRINNELL.

1. What are the Causes of Coma?

2. What are the different varieties of Acute Brights Disease? Give a brief description of the pathology of each.

3. Give the differential diagnosis between Typhus and Typhoid Fever.
4. Give the differential diagnosis between Peritonitis and Enteritis, and treatment of each.
6. Give the differential diagnosis between Erysipelas and Acute Rheumatism and treatment of each.

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EXAMINATION IN SURGERY.
PROF. J. W. WRIGHT.

1. Define "Anto-Transfusion." In what class of cases is it useful, and how is it employed?
2. Define "Rapid Lithotrity," and give a brief account of the operation.
3. State what bones are removed in Syme's Amputation at the Ankle Joint, and describe briefly the details of the operation.
4. Define "Phimosis" and "Paraphimosis," and give the treatment for each.
5. Describe the operation for reducing a dislocation of the Shoulder Joint by "Manipulation," according to Smith's, or Kocher's method.
6. Give the causes, symptoms, diagnosis and treatment of rupture of the bladder.

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Medical Alumni Association.

Graduates of the Medical Department are earnestly requested to forward their names, residences, post office address, and other items of personal interest, to the undersigned.

The payment of one dollar entitles you to membership, and you will be furnished with a copy of the Annual and General Catalogue.

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Instruction is given in the University of Vermont in three departments, viz:

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THE DEPARTMENT OF APPLIED SCIENCE,

THE DEPARTMENT OF MEDICINE.

The first of these comprises the usual College Course in Languages, Mathematics, Physical Sciences, Mental, Moral and Political Philosophy, Rhetoric, Literature and History, and leads to the degree of Bachelor of Arts.

The second is subdivided into Courses in Civil Engineering, Chemistry and Agriculture, and leads to corresponding degrees.

Students have full liberty to elect their courses, but, beyond this, options are not allowed to those who may be candidates for a degree, except that, to a limited extent, equivalent substitutions may be made by express permission of the Faculty.

The degree of Doctor of Philosophy will be conferred upon the satisfactory completion of a prescribed post graduate course in art or science.

The University has a Military Department, which is under the charge of a United States officer.

Candidates may be admitted to the Academical Department 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 term.

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, cancelling tuition, have been established for the benefit of young men of limited means.

Two Reading Rooms are maintained, one for the gentlemen and one for the ladies. These are supplied with the leading scientific and literary journals of Europe and America.

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

The laboratory, lately reconstructed, 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 students at from $18 to $25 per annum, including care. Table board may be had for $2.50 to $3.00 per week.

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M. H. BUCKHAM, President.