Medical Department
of the
University of Vermont
and
State Agricultural College
Burlington, Vermont.

FORTY-THIRD
ANNUAL ANNOUNCEMENT
1896.
UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE.

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Ophthalmologist to the Mary Fletcher Hospital,
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Professor of Medical Jurisprudence.
Annual Announcement.

1895.

The Medical Department of the University of Vermont and State Agricultural College was chartered by the State in 1823. It was reorganized in 1854. The institution is consequently one of the oldest Medical Colleges in the United States.

The forty-third annual course of lectures will begin Thursday, January 16th, 1896, and continue six months. This extension of the term will increase the scope of the instruction and afford the student more time to digest the information imparted to him. The corps of instructors has been increased by the election of adjunct Professors to several chairs. These adjuncts will instruct the class by lectures or recitations under the direction of the chief of the department, and such instruction will be a compulsory part of the curriculum. The executive faculty remains unchanged.

There will be one course of lectures each year in this department.

The curriculum comprises instruction in Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Practice, Obstetrics, Surgery, Diseases of Children, Ophthalmology and Otology, Pathology and Bacteriology, Neurology, Diseases of the Mind, Hygiene, Medical Jurisprudence, Venereal Diseases, Dermatology, Laryngology, Gynaecology and Examinations for Life Insurance. This instruction is given by scholastic and clinical lectures and by demonstrations. Laboratory instruction in Urinary Analysis, Histology, Pathology and Bacteriology and practical work in Physical Diagnosis, Surgery and Demonstrative Obstetrics are now compulsory; and each candidate for the Degree of Doctor in Medicine must have taken each of these branches once during his attendance at this college, unless he has evidence of having taken the same at some other college.

All private courses by the professors are abolished.
The College Building.

The College Building, the gift of John P. Howard, 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 new laboratories for Practical Chemistry and Physiology, and the Dissecting Room for Practical Anatomy, are ample in size, and supplied with the modern conveniences and apparatus required for chemical experiments and physiological and anatomical demonstrations.

The College Museum is spacious, well lighted, 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 the students.

THE WILLIAMS SCIENCE HALL.

Through the generosity of Dr. E. H. Williams of Philadelphia, the students, both in the Academical and Medical departments, are to be supplied with ample accommodations for Laboratory work. The building is now ready for occupancy. It is fully supplied with all modern apparatus for scientific investigation, giving students advantages unsurpassed for histological, chemical and bacteriological work.
OUTLINE OF THE
Course of Lectures.

OBSTETRICS AND DISEASES OF WOMEN.

PROF. A. F. A. KING.

ADJUNCT, PROF. P. E. M'SWEENEY.

This Course will comprise a series of lectures on the Science and Practice of Midwifery, together with additional Lectures on Gynaecology. The main purpose of the lecturer will be to explain, impress and simplify the matters required to be studied in the books, so as to render them more easily intelligible, and hence more pleasing and satisfactory to the student. The lectures will be illustrated by diagrams, models, natural preparations, manikins and instruments.

Mathieu's Elastic Manikin, for demonstrating obstetrical operations is used before the Class in the Lecture Room.

A course of Demonstrative Obstetrics upon the manikin will be given during the session, which each student will be required to take at least once, before becoming a candidate for graduation, unless he has evidence of having taken the same elsewhere.

In the Department of Gynaecology the various instruments and appliances required in treating the Diseases of Women will be exhibited, and their uses fully explained. The pathological conditions of the female organs will be illustrated by specimens and colored diagrams; and the various Surgical operations belonging to Gynaecological practice will be shown both clinically and upon the cadaver, by Prof. W. Wotkyns Seymour, Special Professor of Surgical Gynaecology.

PRACTICE OF MEDICINE.

PROF. A. P. GRINNELL.

In this department every effort will be made to associate scholastic and clinical teaching, enabling the student to become thoroughly acquainted with the methods adopted for investigation of diseases, and the practical application of remedies at the bedside.
The Scholastic Lectures will be illustrated by pathological specimens, charts, casts, diagrams, and micro-photographs.

Clinics will be held at the Mary Fletcher Hospital, where the student will be brought in direct contact with the subject under discussion.

Special instruction will be given in Physical Diagnosis, thus affording to every student a knowledge of diseases of the chest, and of the most approved methods of diagnosis, and each student will be required to take at least one course in Physical Diagnosis in some regular college, before he may become a candidate for graduation.

One course in laboratory Pathology and Bacteriology will be required of each student in some regular college, before he may become a candidate for graduation.

**CHEMISTRY AND TOXICOLOGY.**

PROF. RUDOLPH A. WITTHAUS.

ADJUNCT, PROF. C. S. BOYNTON.

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 ground-work 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 more important application of Chemistry to the science of poisons will receive particular attention.

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.

One course in laboratory Chemistry will be required of each student in some regular college before he may become a candidate for graduation.

**PHYSIOLOGY AND MICROSCOPIC ANATOMY.**

PROF. J. HENRY JACKSON.

ADJUNCT, PROF. J. H. LINSLEY.

Each candidate for examination in Physiology is required to take at least one course of study in Histology in some regular medical col-
lege. By the courtesy of the trustees of the University and the generosity of Doctor Williams, better opportunity for such instruction will now be found in the new physiological laboratory which is well equipped for the work.

In the lecture room there will be given each day a brief review of the minute structure of each organ and tissue as seen with the microscope and as illustrated by the diagrams and charts. There will follow a study of the functions of each part as an independent mechanism, and the harmonious working of all by the aid of a complete nervous system.

**PRINCIPLES AND PRACTICE OF SURGERY.**

PROF. A. M. PHELPS.

ADJUNCT, PROF. J. B. WHEELER.

The course of Surgery will consist of scholastic 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.

A course of practical instruction will be given by Prof. Wheeler, in surgery. The application of splints, bandages, and other surgical appliances, by the students, will constitute one of the important practical features of the course. To be taken in this or some other regular medical college.

**GENERAL DESCRIPTIVE AND SURGICAL ANATOMY.**

PROF. H. C. TINKHAM.

The lectures in this course will be fully illustrated by 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 of dissections and preparations.
MATERIA MEDICA AND THERAPEUTICS.

PROF. J. N. JENNE.

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 lectures on special subjects are delivered during the session without extra expense; and the final examination for the Degree of Doctor in Medicine will embrace the instruction given by the Professors of Special Subjects.

DISEASES OF THE EYE, EAR AND THROAT.

Prof. J. H. Woodward, of Burlington, Vt., will give a course of clinical lectures on Diseases of the Eye, Ear and Throat. 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.

DISEASES OF THE NERVOUS SYSTEM.

Prof. Greame M. Hammond, of New York City, will deliver a course of didactic and clinical lectures on Diseases of the Nervous System. Prof. Hammond's large experience as a neurologist and lecturer enables him to give a most interesting and instructive course.
SURGICAL DISEASES OF WOMEN.

Prof. W. Wotkyns Seymour, of Troy, N. Y., will give a course of lectures on the Surgical Diseases of Women. The lectures will be illustrated by clinical material, plates and manikin.

PATHOLOGY AND BACTERIOLOGY.

Prof. J. H. Linsley, of Burlington, Vt., will deliver a course of lectures on these subjects during the session. The lectures will be abundantly illustrated by fresh pathological material and microscopical demonstrations of the more important varieties of micro-organisms.

PRACTICAL ANATOMY.

H. R. WATKINS, M. D.

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 the course of study. The dissecting room is large, commodious, well ventilated and lighted. Material is furnished free. The Demonstrator will be in daily attendance during the time dissections are being made.

During the last session we were able to provide all the dissecting material the class required, and we have an abundant supply promised for the session of 1896.

INSANITY.

Prof. P. M. Wise, Medical Superintendent of the St. Lawrence Hospital, Ogdensburg, N. Y., will deliver a course of lectures on insanity. The examination of the insane and treatment in the early and curable stages, will have particular attention. Material for clinical instruction, so far as possible, will be received from institutions near at hand.

GENITO URINARY AND VENERAL DISEASES.

Prof. Hayden, who is connected with the College of Physicians and Surgeons in New York City, and who has for many years conducted the Veneral clinic, will give a course of lectures upon this subject.
MEDICAL JURISPRUDENCE.

BY J. E. CUSHMAN, ESQ., BURLINGTON, VT.

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.

MEDICAL EXAMINATION FOR LIFE INSURANCE.

Dr. Arthur B. Bisbee, Medical Director of the National Life Insurance Company, Montpelier, Vt., will deliver a course of lectures on this subject.
Clinical Advantages.

The Mary Fletcher Hospital, erected and endowed solely by the generosity of the lady whose honored name it bears, was opened in 1876 for the treatment of patients. Additions and improvements have been made from year to year, until now it is unrivaled in its appointments for the care of medical and surgical cases.

The Hospital consists of a large and elegant 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 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 session, to which all the students are admitted.

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

Consulting Surgeon: Prof. A. M. Phelps.
Consulting Physician: Prof. A. P. Grinnell.
Attending Surgeon: Prof. John B. Wheeler.
Attending Surgeon: Prof. H. C. Tinkham.
Attending Physician: Dr. P. H. McSweeney.
Attending Physician: Dr. H. R. Watkins.
Ophthalmic Surgeon: Prof. J. H. Woodward.
College Clinics.

The Faculty will make every effort to improve the Clinical teaching which has already become an important feature of the instruction in this school. 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 at the Hospital by Prof. Grinnell every Wednesday morning, beginning January 22d and ending March 18th, and by Prof. Jenne from March 25th to May 21st, only third year students attending after April 15th.

A Clinic for Diseases of the Eye, Ear and Throat, by Prof. Woodward, will be held from 3 to 4 p.m., from March 23d to April 7th.

A Surgical Clinic will be held by Prof. Wheeler every Saturday morning, beginning January 25th, ending May 2d.

A Clinic for Veneral Diseases will be held by Prof. Hayden, between May 4th and 8th.

A Clinic for Diseases of the Skin, by will be held during his course of lectures, from May 11th to May 15th.

A Clinic for Diseases of Women will be held by Prof. Seymour, on May 8th and May 15th.

A Surgical Clinic will be held by Prof. Phelps every Saturday morning from 9 to 12 o'clock, and every Wednesday afternoon from 2 to 4 o'clock, beginning May 20th and ending June 24th.

A Clinic for Diseases of the Nervous System will be held during the course of lectures by Prof. Hammond, between April 27th and May 1st.

The following list will indicate some of the Medical and Surgical cases treated before the Class during the Session of 1895.

OPHTHALMOLOGICAL AND OT OLOGICAL.

Blepharitis Marginalis.
Conjunctivitis trachomatosa.
" phlyctenular,
" follicular.
" Chronic cartarrhal.
Cataract—Senile.
Chalazion.
Eye Strain.
Evisceration.
Glaucoma.
Keratitis phlyctenular.
Lachrymal Sac, blenorrhoea of
Nasal Duct, stenosis of
Ophthalmia Neonatorum.
Ulcer of Cornea.
Strabismus.
Mastoiditis.
Lachrymal Fistula.
Error of Refraction.
Lachrymal Abscess.
Pannus.
Trachoma.
Pterygium.
Hypertrophy of Turbinated Bones.
Pharyngitis, Follicular.
Astigmatism, Compound Myopic.
Hypertrophic Rhinitis.
Retinitis Pigmentosa.
Ophthalmia Muco-purulent.
Pharyngeal Adenoids.
Atrophic Rhinitis.
Keratitis—Interstitial.
Injury—Perforating of Cornea.
Sclera.
Pharyngitis, Chronic Catarrhal.
Otitis Media, Chronic purulent.
Strabismus, Convergent.
“ ” Divergent.
Stenosis, Lachrymal.
“ ” Laryngeal.
Paresis—rb. and b. rectus muscle.
Homonymous Diplopia.
Dacryo-cystitis.
Hypopyon.

Chorea.
Cystitis.
Diabetes Mellitus.
Epilepsy (Petit Mal.)
Eczema.
Goitre.
Polio-Myelitis.
Sciatica.
Tuberculosis (Incip. stage.)
Tabes Dorsalis.
Dyspepsia.
Empyema.

Bunions.
Genu Varum.
Gonorrhoea—acute and chronic.
Genu Valgum.
Hare lip, { Single.
{ Double.
Hammer toe.
Hypospadias.
Hallux Valgus.
Hip joint, (tubercular.)
Knee joint, (tubercular.)
“ ” injured.
Phimosis.
Prostatitis.
Rachitis.

Spinal curvature, (Antero P’steri’rLaceration of Cervix Uteri.
Synovitis.
Sinus.
Syphilitic Ulcer.
Talipes Varo-Equinus.
“ ” “ with cavus (both feet.)
Tenotomy (abductor tendons.)

Fibromata.
Scirrus of
Carcinomata breast.
Cervix Uteri.
Epitheliomata.
Varicose Ulcer.
Varicocele.
Lipoma.
Semilunar Cartilage, Dislocation of
Injury to Foot.

Polypus—aural.
Ulcer of Cornea, Perforating.
Cataract—Congenital.
“ ” Post-capsular.
Otitis Media—Catarrhal.
Syphilitic Iritis.
“ ” Ulcer of Nose.
“ ” Ulcer of Nasal System.
“ ” Paralysis of Abducens.
Glaucma, Simple chronic.

MEDICAL.
Exophthalmic Goitre.
Incipient Phthisis.
Psoriasis.
Syphilis Secondary.
“ ” Tertiary.
Urinary Incontinence.
Stricture of Oesophagus.
Athetosis.
Epilepsy (Traumatic.)
Hysteria.
Neurasthenia (Congestive.)
Spastic Paraplegia.

SURGICAL.
Gun-shot wound—Foot.
“ ” Forehead.
Hemorrhoids.
Cystitis.
Cleft Palate.
Hernia—Oblique Inguinal.
“ ” Infantile.
Mastoiditis.
Necrosis, Clavicle.
“ ” Ilium.
“ ” Femur.
“ ” Rib.
Stricture, Urethral.
“ ” Oesophageal.
Ulcer—Arm.

Polypus—Uterine.
Procedentia Uteri.
Oophoritis—Cystic.
Paralysis, Spastic.
Varicose Veins.

Lupus.
Epilepsy—Traumatic.
Undescended Testicle.
Osteomyelitis—Humerus.

Synovitis—Tubercular.
Fibromata—Uterine.
Epitheliomata, Cervix.
“ ” Hand.
“ ” Nose.
“ ” Leg.
Requirements for Entrance.

All students who have matriculated in this Department of the University prior to July, 1891, will be admitted to the lectures and enrolled as students in regular standing, without preliminary examination.

Applicants who do not belong to this class, will be required to pass an Entrance Examination in Arithmetic, Grammar, Geography, Orthography, American History, English Composition and Elementary Physics before they may be regularly enrolled as students in good standing in this Department. But applicants who may have failed in one or more branches at these examinations, may be enrolled as conditioned students; they must make up the deficiency, however, during the first year, before they can be enrolled as students in regular standing.

EXCEPTIONS:—Such entrance examination will not be required of applicants of the following classes:

1. Those who declare themselves in writing not to be candidates for the Degree in Medicine from this College.
2. Those who have received the Degree of A. B., A. M., B. S., M. S., Ph. B., or Ph. D., from a College or a University which maintains a satisfactory Academic standard.
3. Those who have successfully completed a full year's course of study in any College or University which maintains a satisfactory Academic standard.
4. 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.
5. Those who have passed the entrance examination to a Medical School having requirements for entrance equivalent to those adopted by this Faculty.
6. 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.
7. 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.
8. Those who have satisfactorily completed a three years' course in a High School, Normal School, or Academy.
Entrance Examinations.

Entrance examinations will be held by Principal S. W. Landon at the High School building, January 27-31, March 28-27, June 15-19, 1896.

The laws of the State of New York specify that no person shall practice medicine or surgery in that State who shall not have passed an examination conducted under the authority and in accordance with the rules of the Regents of the University of the State of New York, at least three years before the date of his medical degree. To enable students to take these examinations in Burlington, the Regents have appointed as Regents' Examiner for the University of Vermont, Principal S. W. Landon, who will hold the required examinations at the place and upon the dates given above for the “entrance examinations.”

The requirements established by the Legislature of New York in 1895 are as follows: For degrees conferred in 1898, Regents’ pass-cards for 12 academic counts; for degrees conferred in 1899 Regents’ pass-cards for 24 academic counts; for degrees conferred in 1900 Regents’ pass-cards for 48 academic counts, or that the candidate shall possess qualifications which the Regents shall consider and accept as fully equivalent to the above. The following is a list of subjects from which the candidate can select at will subjects sufficient to secure the required number of counts. The figure prefixed to each subject shows how many counts are allowed that subject.

**ACADEMIC STUDIES OR COUNTS.**

Subjects in *italics* are those in which examinations are held in June only.

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<th>GROUP 1</th>
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<td>Language and literature.</td>
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<tr>
<td>4 Latin, 2d year,</td>
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<td>4 Caesar’s Commentaries,</td>
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<td>4 Latin, 3d year,</td>
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<td>2 Sallust’s Catiline,</td>
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<td>2 Cicero’s Orations.</td>
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<th>Special reading courses 1-8.</th>
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<td>2 English poetry,</td>
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<td>2 American selections,</td>
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<td>1 German classics in English,</td>
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<td>1 French classics in English,</td>
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<td>1 Latin classics in English,</td>
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<td>1 Greek classics in English,</td>
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<td>1 Ovid’s Metamorphoses,</td>
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<td>4 Virgil’s Aeneid,</td>
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<td>1 Virgil’s Eclogues,</td>
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<td>4 Greek, 1st year,</td>
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<td>4 Greek, 2d year,</td>
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<td>4 Xenophon’s Anabasis,</td>
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<td>2 Homer’s Iliad,</td>
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<td>4 Greek, 3d, year.</td>
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<th>Ancient.</th>
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<td>4 Latin, 1st year,</td>
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GROUP 2.
Mathematics.
2 Advanced arithmetic, 4 Algebra, 2 Advanced algebra, 4 Plane geometry, 2 Solid geometry, 1 Plane trigonometry, 1 Spheric trigonometry.

GROUP 3.
Science.
2 Astronomy, 2 Physics, part 1, 2 Physics, part 2, 2 Chemistry, part 1, 2 Chemistry, part 2.

GROUP 4.
Geologic.
2 Physical geography, 2 Geology.

GROUP 5.
Biologic.
2 Botany, 2 Zoology, 2 Physiology and hygiene.

Summary.

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At least five days before each examination the candidate should notify the examiner upon what subjects he wishes to be examined.

The following are copies of questions used in the Regent's examinations of 1895, from which candidates can get an idea of the character and scope of the preparatory work required: The questions for the regular entrance examinations are materially the same. Further particulars concerning the examinations can be obtained by consulting or writing to the official examiner.

GEOGRAPHY.

100 credits, necessary to pass, 75.

Answer ten questions but no more. Each complete answer will receive 10 credits.

1. Define or illustrate by drawing each of the following terms: archipelago, promontory, gulf, meridian, tropics.

2. What is the greatest latitude a place can have? the greatest longitude? Name three places whose latitude you know and give the latitude of each.
3. Explain why it is warmer in summer than in winter. Use drawing to illustrate.
4. Locate an important coal region in the United States and describe the process of mining coal.
5. When it is 12 o'clock noon standard time in New York, what is the standard time in San Francisco? Explain.
6. Draw an outline map of the United States. (Use an entire page.)
7. Designate (name and location) on the map required by question 6 five important rivers four of which are not in New York state.
8. Designate (name and location) the following on the map required by question 6: parallel of 40° north latitude, San Francisco, Chicago, St. Louis, Philadelphia.
9. Give the location of each of the following: Pekin, Calcutta, Savannah, Rio Janeiro, Melbourne.
10. Describe the Esquimaux as to dress, food, occupation, dwellings (drawing preferred), and mode of transportation.
11. Make a drawing of one of the following: palm tree, dwelling of a Swiss peasant, banana plant, Indian tent.

In questions 12-13, 14-15 write a description of one country in each group chosen, touching on (a) position on the earth, (b) capital and two principal cities, (c) chief mountains and rivers, (d) vegetable and mineral productions, (e) manufactures and commerce.

PHYSICS.

Answer 10 questions but no more. Each complete answer will receive 10 credits.

1. Describe the process of welding and explain the action of heat in this process.
2. Describe the process of soldering and explain the action of heat in this process.
3. Describe an experiment illustrating the laws of capillarity.
4. Describe an experiment illustrating the osmose of liquids.
5. State the three laws of motion and describe an experiment illustrating one law.
6. Describe an experiment with Atwood’s machine that illustrates the laws of uniformly accelerated motion.
7. Find, without allowances, the distance passed over by a falling body during the first half of the sixth second of the fall.
8. Two non-parallel forces whose ratio is \( \frac{2}{3} \) act on a point; represent these forces and their resultant by lines.
9. With the ordinary combination of four fixed and three movable pulleys the weight moves a distance of six feet; find the distance the power moves.
10. A power of 10 grams applied to a wheel one meter in diameter sustains a weight of 200 grams on the axle; find the diameter of the axle.
11-12. Find the size of the mass of pine wood required to support 10 lbs. of iron in water, both being immersed. (Sp. gr. pine=0.66, sp. gr. iron=7.2)
13. State the conditions in a city water system necessary in order that the water in the pipes may rise to the height of the surface of the water in the reservoir.
14. A volume of gas at 7°C. measures 840 c. c.; find its volume when raised to 15°C., the pressure remaining constant.

15. Discuss the origin of winds.

UNITED STATES HISTORY.

Answer 10 questions but no more. Each complete answer will receive 10 credits.

1. What work in discovery or colonization was accomplished by (a) James Oglethorpe, (b) Roger Williams, (c) Thomas Hooker, (d) Menendez, (e) Drake?

2. What is meant by proprietary government, charter government, royal government? Give an example of a colony under each of these forms of government.

3. Give an account of the acquisition of territory in North America by the French.

4. Locate the following places and state why each is noted: Saint Augustine, Bunker Hill, West Point, Gettysburg, Mount Vernon (not in New York).

5. Show how the following aided directly or indirectly in bringing on the revolutionary war: French and Indian war, tax levies, a growing spirit of independence.

6. State the purpose of Burgoyne's invasion. Describe the route taken by his army and the route taken by the army of St. Leger. Mention three points at which the American forces successfully withstood the British.

7. State how the final ownership of the following portions of North America was settled: Alaska, Texas, Mexico, Canada, California.

8. Explain five of the following: State rights, Ashburton treaty, right of search, Gadsden purchase, carpet-baggers, Monroe doctrine, omnibus bill.

9. When and under what circumstances did West Virginia become a state?

10. Give an account of important events in two of the following administrations: Monroe, Jackson, Taylor and Fillmore, Hayes, Cleveland.

11. Describe the motives and incidents of John Brown's raid.

SETTLEMENT AND COLONIAL HISTORY OF NEW ENGLAND.

12. Describe the Puritans as to trait of character and manner of life.

13. Give an account of Massachusetts Bay colony based on the following outline: charter, first settlers, second immigration, leaders, character and religious intolerance of the colonists.

14. Under what circumstances was the confederation of New England colonies made in 1643? What colonies were represented? In what matters did these colonies act independently and in what did they act in common? How long did the confederation continue?

15. Write biographic notes on five of the following, stating some particular service for which each of the five selected became famous: Miles Standish, John Hancock, Joseph Warren, Daniel Webster, Whitman, Wendell Phillips, Horace Mann.
Answer questions 1-5 and five of the others but no more. Each complete answer will receive 10 credits.

1. Define denominator, divisor, minuend, discount, power of a number.

2. A railway train runs 500 meters in 20 seconds; how many kilometers will it run in 1 hour? How long will it take to run 150 kilometers?

3. Find the amount at simple interest of $865.35 for 1 year, 5 months, 17 days at 4½%.

4. Bought 86,340 pounds of coal at the rate of $3.60 a gross ton and retailed it at 42 cents a hundred pounds; find the gain per cent. and the entire gain.

5. Find the cost of carpeting a room 15 feet long, 12 feet wide, with carpet ¼ yard wide, at 75 cents a running yard.

6. Find the rate per cent. of interest on investment in government 3% bonds bought at 115.

7. Perform the following indicated operations: 43562 X 21894--;-986.

8. Make a receipted bill of the following: Sold this day to Anson White 3 barrels flour at $3.75, 75 lbs. sugar at 5 cents, 10 lbs. coffee at 35 cents, 2 lbs. tea at 60 cents.

9. A street 50 feet wide has a stone sidewalk 5 feet wide on each side and the space between the walks is paved with asphalt; the sidewalk cost 30 cents a square foot and the asphalt 25 cents; the expense is assessed on the adjoining property. How much must A pay whose lot is 40 feet front? (A pays to the center of the street.)

10. A farmer pays 50 cents for seed corn to plant an acre of ground, $10.50 for plowing, planting and cultivating, $12 for harvesting; his crop is 40 bushels of corn worth 55 cents a bushel and 2 tons of corn stalks worth $3 a ton. Assuming that his land is worth $75 an acre, what rate per cent. does it pay him?

11. Find the prime factors of 1226, 1938 and 2346. Indicate which of these factors must be combined to produce (a) the greatest common divisor, (b) the least common multiple.

12. Write the table of avoirdupois weight. For what is this weight used?

13. How many tohs of ice will be required to fill an ice house 40 feet X 35 feet X 20 feet, assuming that water weighs 62½ lbs. a cubic foot, and ice is ⅗ as heavy as water?

14. Two men start from the same point on a level plain and travel, one due north at the rate of 3 miles an hour, the other due east at the rate of 5 miles an hour; how far apart will they be at the end of 10 hours?

15. In a certain school district the assessed valuation of property is $136,395 and the amount to be raised by local tax is $785.72; find the amount of the tax of A, whose property is assessed at $8500.
REQUIREMENTS FOR GRADUATION.

Students who have matriculated in this College prior to July 1, 1890, will be subject to the regulations and requirements for graduation as printed in the announcement for 1890.

Three full courses of lectures, of at least twenty weeks each, will be absolutely required of students who do not come under the above regulation, and no period of practice will be taken as an equivalent of one course.

No candidate shall be admitted to an examination until all fees due the College from such candidate shall have been paid.

Candidates for the Degree of Doctor of Medicine, before presenting themselves for examination, must have attended at least three full courses of lectures of twenty weeks' duration each, the last 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 have taken at least one course of Laboratory instruction in Urinary Analysis, in Histology, and in Pathology and Bacteriology, and one course of practical work in Physical Diagnosis, Practical Surgery, and in Demonstrative Obstetrics in some regular Medical College before he becomes a candidate for graduation.

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.

The tickets and Diplomas of Eclectic and Homoeopathic, 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 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 and Obstetrics. No thesis is required.

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

Degrees in absentia are not conferred by this University under any circumstances whatever.
Special Examinations

IN THE ELEMENTARY DEPARTMENTS.

Students who have attended two full courses of lectures in all departments taught in this college may be examined upon Anatomy, Physiology, Chemistry, and Materia Medica, at the end of the second course, and if successful in these examinations they 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 examination. Certificates of having passed in any branch or branches in other Colleges are not accepted by this College.

FACULTY PRIZES.

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. The prizes will 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 rank highest 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 of 1895 were: Harry Milton Gardner, Charles Bump Hussey, James Henry Naylor, Harry A. Brown, Schuyler W. Hammond. First Prize was awarded to Harry M. Gardner; Second Prize to Charles B. Hussey.
FULL FEES OF THE COLLEGE.

Matriculation Fee, payable each term ........................................ $ 5.00
Full Course of Lectures, each year ........................................... 100.00
Single Tickets .............................................................................. 20.00
Examination Fee, payable once and not returnable ....................... 25.00

THERE ARE NO OTHER FEES OR CHARGES OF ANY KIND.

In the Sessions of 1896 and 1897, but not thereafter, any student who has taken a special course in this College in Urinalysis or Pathology will be credited with the amount of the fees paid therefor upon his second year fees; and any student who has taken a special course in this College in Physical Diagnosis, Demonstrative Obstetrics or Practical Surgery will be similarly credited upon his third year fees.

Graduates of other regular American 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.

All fees must be paid to the Secretary, and are payable in advance. 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 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 railroad and steamboat lines running into Burlington.
Text-Books and Books of Reference.


On Physiology.—Kirke, Foster, Flint, Yeo.


On Theory and Practice.—Osler, Loomis, Roberts, Musser’s Diagnosis, Pepper, Vierodt’s Medical Diagnosis, Hughes, Yoe’s Manual of Treatment, Dacosta’s Diagnosis. Flint.


On Diseases of Women.—Thomas, Munde.

On Materia Medica and Therapeutics.—H. C. Wood, Hare’s System, (3 vols.); Biddle, Shoemaker, White, National Dispensatory, Hare, (1 vol.); (Therapeutics,) Thornton; (Prescription writing,) U. S. Pharmacopea.


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

On Diseases of the Eye and Ear.—Nettleship on the Eye, Pomeroy on the Ear, Dr. Schwirnitz, Diseases of Eye, Dr. Roosa, Diseases of Ear.

On Medical Jurisprudence.—Wharton & Stille, Ordronaux, Beck, Taylor.


On Diseases of the Skin.—Taylor, Piffard, Liveing, Fox, Duhring, Cutler.

On Diseases of the Nervous System.—Hammond, Dana.

Dictionary of Medicine.—Keating, Duane.

Bacteriology.—Fraenkel (Linsley), Sternburg, Abbott.

Clinical Microscopy—Diagnosis (Von Jaksch), Urinary Analysis (Purdy), Reyess’ Atlas.

Histology.—Piersal, Klein, Schafer.

Hygiene.—Rohe.

Pathology.—Delafield & Pruedler, Green, Ziegler, Woodhead, Billroth (Surgical) Senns.

Gould’s Medical Dictionary.
<table>
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<tr>
<th>NAME</th>
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<tr>
<td>Lynn Harry Blanchard</td>
<td>Springfield, Me.</td>
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<tr>
<td>Reginald Gilbert Bray</td>
<td>Burlington, Vt.</td>
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<tr>
<td>Harry Albertus Brown</td>
<td>Salmon Falls, N. H.</td>
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<td>Ambrose Guy Byrnes</td>
<td>Madison, N. Y.</td>
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<tr>
<td>Daniel Hamer Calder</td>
<td>Salt Lake City, Utah.</td>
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<td>Philo Chesebrough</td>
<td>Edmeston, N. Y.</td>
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<td>Edward Richard Cooke</td>
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<td>Clarence Proctor Curley</td>
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<td>John Robert Disbrow</td>
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<td>H. Wardner Eggleston</td>
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<td>John Wesley Estabrook</td>
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<td>Harold Albert Fiske</td>
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<td>Edward James Horan</td>
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<td>Charles Bumps Hussey</td>
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<td>John Thomas Lyston</td>
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<td>John Alex Mack</td>
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<td>Augustus Marable</td>
<td>New Orleans, La.</td>
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<td>Michael Francis McGuire</td>
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<td>James Henry Naylor</td>
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<td>John Howard Parker</td>
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<td>Harwood Vernon</td>
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<td>H. Augustus Young</td>
<td>New York</td>
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Students of 1895.

Adams, James Thatcher ........................................... Sandwich, N. H.
Allen, A. B., Lyman ............................................. Burlington, Vt.
Allen, Walter Brainard .......................................... St. Johnsbury, Vt.
Aldrich, Charles .................................................. Franconia, N. H.
Andrews, Clayton Gerald ........................................ Richmond, Vt.
Avery, J. Waite .................................................... Burlington, Vt.
Bates, George Lucien ............................................ Morrisville, Vt.
Barton, Walter E. .................................................. New York
Baylies, Frederick Wheaton ...................................... Springfield, Me.
Bean, John Hiram .................................................. West Milton, Vt.
Beaucr, William Preston ........................................... Irasburgh, Vt.
Beirne, James Patrick ............................................ Keene, N. H.
Bigelow, Edwin Payson ............................................ Stowe, Vt.
Bixby, Winfred Lewis ............................................. Clarendon, Vt.
Bissell, Charles Emerson ........................................ Starkey, N. Y.
Blackman, Chester Eugene ....................................... Bridgeport, Ct.
Blanchard, Lynn Harry ............................................ Springfield, Me.
Blodgett, John Henry ............................................. Grafton, Vt.
Botsford, Richard .................................................. Fort Dodge, Iowa
Bordeleau, Joseph Charles A. ...................................... Stanford, P. Q.
Boyer, Arthur Irving .............................................. New Haven, Conn.
Bray, Reginald Gilbert ............................................. Burlington, Vt.
Brazille, Frank Hamilton .......................................... Camden, Me.
Brown, Edmund Towie ............................................. Ashland, N. H.
Brown, Harry Albertus ............................................. Salmon Falls, N. H.
Brundage, Edgar Morse ............................................. Upper Greenwich, N. B.
Burbank, Lester Warren ........................................... Walden, Vt.
Burdick, Elmer Almon .............................................. Winooski, Vt.
Burr, Clarence Harvey ............................................ Thetford Center, Vt.
Byrnes, Ambrose Guy .............................................. Madison, N. Y.
Calder, Daniel Hamer .............................................. Salt Lake City, Utah
Chaffee, Harry Smith ............................................. Rochester, Vt.
Chesebrough, Philo ................................................ Buffalo, N. Y.
Cogswell, S. J. ....................................................... Ashburnham, Mass.
Cole, Judson Henry ................................................ Burlington, N. Y.
Cole, Cheney Isaac ................................................ Ellenburgh Center, N. Y.
Colby, A. B., Bernie Dennis ....................................... Bristol, Vt.
Cooke, Edward Richard ........................................... Toledo, Ohio
Cooke, Norman Randolph ......................................... East Jackson, Me.
Comerer, Jacob Alvin ............................................. Burnt Cabins, Pa.
Courtney, James William ......................................... Burlington, Vt.
Crane, Edward M. .................................................. Hardwick, Vt.
Curley, Clarence Proctor ......................................... Fairfax, Vt.
Curry, Edward Thomas ............................................ Lynn, Mass.
Dawson, Wellington Levi ......................................... Hillsboro, N. B.
Damon, Albert Hobart ............................................. Charlotte, Me.
Davis, Edwin Black ................................................ Rutland, Vt.
Davis, Stephen Rich ............................................... Barre, Vt.
Disbrow, John Robert ............................................. Dalhousie, N. B.
Dodds, John Hazen ................................................ North Hero, Vt.
Donovan, Cornelius Henry ....................................... Keene, N. H.
Dooley, Timothy Joseph ........................................... Hartford, Conn.
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<td>Dunham, Frank Lee</td>
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<td>Herrick, Van Buren</td>
<td>East Fairfield, Vt</td>
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<tr>
<td>Hill, Ph. B., Thomas Chittenden</td>
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<td>Holden, George Walter</td>
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<td>Heidel, Lewis Albert</td>
<td>Grant, N.Y.</td>
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<td>Holland, Robert Edward Lee</td>
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<td>Horan, Edward James</td>
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<td>Hoyt, Frank Alonzo</td>
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<td>Hussey, Charles Bumps</td>
<td>Franklin, Mass</td>
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<td>Hutchinson, John</td>
<td>South Manchester, Conn</td>
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<td>Irwin, Vincent James</td>
<td>Springfield, Mass</td>
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<td>Jackson, Oseola Ellsworth</td>
<td>Fall River, Mass</td>
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<td>Johnson, Robert William</td>
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<td>Judd, John Wesley</td>
<td>New Lenox, Mass</td>
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<td>Judson, Harry Gray</td>
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<td>Kearne, James Emmett</td>
<td>Roxton Falls, P.Q.</td>
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<td>King, Jerome Marcus</td>
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<td>Knowles, Wesley Lindley Murray</td>
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<td>Lewis, Henry Edwin</td>
<td>Providence, R.I.</td>
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<td>Libby, George Warren</td>
<td>Colton, N.Y.</td>
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<td>Livingston, Ernest George</td>
<td>Berkshire, Vt</td>
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<td>Longe, Bertie Duane</td>
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<td>Lunderville, Evroy Paul</td>
<td>St. Albans, Vt</td>
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<td>Lyston, John Thomas</td>
<td>Rutland, Vt</td>
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<td>Mack, John Alexander</td>
<td>North Wilbraham, Mass</td>
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<td>Marable, Augustus</td>
<td>New Orleans, La.</td>
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<td>Marshall, Velona Alonzo</td>
<td>Proctor, Vt</td>
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<td>Marshall, Lewis J.</td>
<td>Morrisville, Vt</td>
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<td>Mackay, Albert James</td>
<td>Peacham, Vt</td>
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<td>McAllister, Sheridan Davis</td>
<td>Warren, Vt</td>
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<td>McFarland, William J. R.</td>
<td>Flackville, N.Y.</td>
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McKenzie, James Bernard
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S. Burlington, Vt.
Milliken, Walter Sylvester
-----------------------------
East Baldwin, Me.
Mitchell, Henry Walter
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Malden, Mass.
Montiflore, Herbert Nathan
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St. Albans, Vt.
Mooney, Michael Henry
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Montpelier, Vt.
Morse, Charles Frederick
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Mountain, Edward John
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Marsovan, Turkey
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Rockwell, Herbert George
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Ross, Ellwood Jackman
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Rowley, Alfred Merriam
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Scharringhausen, Henry Phillip
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Schwab, Alfred
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New York
Scott, Frederick William
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New York
Sheldon, David Watt
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Dresden, Me.
Sherrard, Frederick
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Charlotte, Me.
Smith, Carson Abijah
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Stafford, John Mather
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Stevens, John Milton
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St. Germain, Joseph Arthur
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St. Laurent, Joseph Alfred
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Stockwell, Herbert Emmons
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Swift, Frank Merritt
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Thayer, Jr., Walter Nelson
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Dannemora, N. Y.
Tyndall, Jr., William J.
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Benton Center, N. Y.
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Vernon, A. B., Harwood
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