1871

Catalogue of the Officers and Students of the State College of Agriculture and the Mechanic Arts, 1871

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CATALOGUE
OF THE
OFFICERS AND STUDENTS
OF THE
Maine State College of Agriculture and the Mechanic Arts,
ORONO, ME., NOVEMBER, 1871.

FACULTY.

Rev. CHARLES F. ALLEN, A. M.,
President and Professor of English Literature, Mental and Moral Science.
MERRITT C. FERNALD, A. M., Professor of Mathematics and Physics.
ROBERT L. PACKARD, A. M.,
Professor of Chemistry, French and German.
WILLIAM A. PIKE, C. E., Professor of Civil Engineering.
CHARLES H. FERNALD, A. M., Professor of Natural History.
JOSEPH R. FARRINGTON, Farm Superintendent.
X. A. WILLARD, A. M., Lecturer on Dairy Farming.
JAMES J. H. GREGORY, A. M.,
Lecturer on Market Farming and Gardening.
Capt. JAMES DEANE, Military Instructor.
JOHN PERLEY, Instructor in Book-keeping and Commercial Forms.
Rev. A. W. REED, Steward.

STUDENTS.

SENIOR CLASS.

Gould, Benjamin Flint, Waterville.
Hammond, George Everett, Eliot.
Haskell, Edwin James, Saccarappa.
Hilliard, Heddle, Oldtown.
Thomas, Eber Davis, Brownville.
Weston, George Osmer, Madison.
AGRICULTURAL COLLEGE.

JUNIOR CLASS.

Hamlin, George Herbert, Ham.
Holt, Fred William, Hampden.
Oak, John Marshall, Garland.
Reed, Charles Emery, Orono.
Scribner, Frank Lamson, Portland.
Thayer, Harvey Bates, Portland.

SOPHOMORE CLASS.

Gerrish, Willie Herbert, Foxcroft.
Gurney, John Irvine, Clinton.
Hunter, Rodney David, Garland.
Osgood, Charles Frederic, Springfield.
Reed, William Henry, Stetson.
Wood, William Ireland, Auburn.

FRESHMAN CLASS.

Ballentine, Walter, Waterville.
Bellows, Gustavus, Freedom.
Blossom, Leander Huzzy, Turner.
Bumps, Wilbur, Bangor.
Barleigh, Frank Pierce, Springfield.
Carver, John Henry, Lagrange.
Coburn, Lewis Farrin, Brunswick.
Colesworthy, Charles Franklin, Portland.
Durham, Charles Frederic, Monroe.
Gage, George Newton, E. Washington, N. H.
Goodale, Alfred Montgomery, Saco.
Ham, Benson Hayes, Charleston.
Hitchings, Edson Fobes, Waterville.
Jackson, Alton Atwell, Jefferson.
Jackson, Manley, Jefferson.
Jones, Freeland, Bangor.
Moore, Fred Lampson, Sebec.
Oak, Ora, Garland.
Rogers, Luther Woodman, Stillman.
Sewall, Minott Wheelwright, St. Albans.
Shaw, George Moore, Augusta.
Spratt, George Wilbur, Jr., Bangor.
Spring, Charles Herbert, Brownville.
Webb, Wesley, Unity.

SUMMARY.

Seniors, 6
Juniors, 6
Sophomores, 6
Freshmen, 24
Total, 42

DESIGN OF THE INSTITUTION.

It is the design of the Maine State College of Agriculture and the Mechanic Arts to give to the young men of the State who may desire it, at a moderate cost, the advantages of a thorough, liberal and practical education. It proposes to do this by means of the most approved methods of instruction, by giving to every young man who pursues the course of study, an opportunity practically to apply the lessons he learns in the class-room, and by furnishing him facilities for defraying a part of his expenses by his own labor.

By the act of Congress donating public lands for the endowment and maintenance of such Colleges, it is provided that the leading object of such an Institution shall be, "without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to Agriculture and the Mechanic Arts."

While the course of study fully meets this requisition, and is especially adapted to prepare the student for agricultural and mechanical pursuits, it is designed that it shall be also sufficiently comprehensive, and of such a character as to secure to the student the discipline of mind and practical experience necessary for entering upon other callings or professions.

CONDITIONS OF ADMISSION.

Candidates for admission to the Freshman Class must be not less than fifteen years of age, and must pass a satisfactory examination in Arithmetic, Geography, English Grammar, History of the United States, and Algebra as far as Quadratic Equations.

Although the knowledge of Latin is not required as a condition of admission, yet the study of that language is earnestly recommended to all who intend to enter this institution.

Candidates for advanced standing must sustain a satisfactory examination in the preparatory branches, and in all the studies previously pursued by the class they propose to enter.

Satisfactory testimonials of good moral character and industrious habits will be rigidly exacted.

COURSES OF INSTRUCTION.

Four full Courses are provided, viz: A Course in Agriculture, a Course in Civil Engineering, a Course in Mechanical Engineering, and an Elective Course. The studies of the several Courses are essentially common for the first two years.

Branches marked thus, (n.), are Elective, and from them students may select, with the advice of the Faculty, to make up the required number (three) of daily exercises.

First Year—First Term. Physical Geography, Colton; physical features of the globe, continents, mountain ranges, river systems, volcanoes, earthquakes, ocean currents. Algebra, Robinson. Rhetorical praxis, Day; English analysis.


English Composition and Declamation and the Reading of Ancient and Medieval History, regular exercises throughout the year. Lectures on Physics, Meteorology, Physical Geography, Botany, Horticulture, and Agriculture, its importance and its relations to other pursuits.


English Composition and Declamation, and Free-hand Drawing, regular exercises throughout the year. Lectures on Chemistry and Mineralogy, on Structural, Physiological and Systematic Botany; on Horticulture, including Market Gardening and the Culture of the Small Fruits, and on Practical Agriculture.


Lectures on Comparative Anatomy and Zoology, Drainage, Dairy Farming, Beneficial and Injurious Insects, and English Literature.


Lectures on Comparative Anatomy and Zoology, Astronomy and English Literature.

THIRD YEAR—COURSE IN MECHANICAL ENGINEERING. Same as Course in Civil Engineering, third year.

FOURTH YEAR—COURSE IN AGRICULTURE—FIRST TERM. Geology, Dana.


Lectures on Geology, Stock Breeding, Cultivation of Grasses and the Cereals, and Rural law.


English Composition and Original Declamation, regular exercise during the last two years of each course. Instruction will be given, at stated times, in Military Tactics.

ELECTIVE COURSE. Students in the Elective Course will pursue the re-
required studies common to all the other courses, and may select from the other courses and the elective studies, to make up their full course.

Special Course. Students may be received for less time than the full course, and may select from the studies of the first, second, or third terms of any year, such branches of study as they choose, provided they are qualified to pursue them successfully. Students in the Special Course will not be entitled to a Degree, but certificates of proficiency may be given them.

Degrees Conferred. The full course in Civil Engineering entitles to the Degree of Civil Engineer; the full course in Mechanical Engineering to the Degree of Mechanical Engineer; the full course in Agriculture, or the full Elective Course, to the Degree of Bachelor of Science.

SPECIAL FEATURES OF THE COURSE.

The prominence given to the Natural Sciences, and the practical element associated with nearly all departments of study, cannot fail to render the course especially valuable.

Nearly a year will be devoted to Botany and Horticulture, commencing early in the spring and continuing till late in autumn. This course will embrace a thorough drill in Botanical Analysis; the study of plants as to their relative importance and geographical distribution; the study of those having commercial or medical value; of those which are cultivated for ornament, and also those which are detrimental, as weeds and poisonous plants. In the gardens to be provided, the student will learn practically the operations and processes in the department of Horticulture.

A year and a half will be devoted to Chemical Physics and Chemistry, commencing with the first term of the second year. The course in Chemistry proper will include General, Analytical, and Agricultural Chemistry. Under Analytical Chemistry will be taken up General Analysis, Use of Blow-pipe, Analysis of Minerals, Analysis of Soils, Ashes of Plants, Fertilizers and Farm Products.

Each student will devote two hours a day to Analysis, under the direction of the Professor of Chemistry, thus acquiring facility in conducting experiments, and securing a practical knowledge of the methods employed in chemical investigations.

Under Agricultural Chemistry will be considered Composition of Soils, Relations of Air and Moisture to Vegetable Growth, Food of Plants, Chemical Changes during Vegetable Growth, Chemistry of Farm Processes, Methods of Improving Soils, and various other topics which may properly be treated of under this department.

Other departments of science will be studied and taught, so far as may be, with special reference to their practical bearing, or their relations to Agriculture and the useful arts.

LABOR.

It is a peculiarity of the College, that it makes provision for labor, thus combining practice with theory, manual labor with scientific culture. Students in this Institution are required to labor a certain portion of each day, not exceeding three hours, for five days in the week. The labor is designed to be, in the fullest sense possible, educational. To illustrate, when the members of a class are pursuing Botany, they will work in the gardens and orchards, under the directions of the Professor of Horticulture, thus rendering themselves familiar with the various forms of hand labor, and the various processes necessary for the successful prosecution of this art; and when they have become proficient in this department, their places will be supplied by others, and they will engage in some other form of labor until they have acquired skill and proficiency in the new department, when other changes will be made, until every student shall become familiar with all the forms of labor upon the farm and in the gardens and workshops.

Students will learn the use of tools and acquire a fitness for mechanical pursuits, under competent instructors, in the workshops to be provided for the study and practice of the Mechanic Arts.

LOCATION.

The college has a pleasant and healthful location intermediate between the villages of Orono and Upper Stillwater, and about a mile from each. Stillwater river, a tributary of the Penobscot, flows a short distance in front of the buildings, forming the western boundary of the college farm, and adding much to the beauty of the surrounding scenery.

The European and North American Railroad, over which trains pass several times each day, has a station at the village of Orono. The college is within nine miles of the city of Bangor, and is consequently easily accessible from all parts of the State.

FARM AND BUILDINGS.

The College Farm contains three hundred and seventy acres of land of high natural productiveness and of great diversity of soil, and is, therefore, well adapted for the experimental purposes of the institution.

The building which has been used as a Dormitory for the three years past, contains eighteen rooms, and affords excellent accommodations for a limited number of students. Some of the lower rooms of this building are appropriated to general and class purposes.

The new Hall contains forty-eight rooms. The Boarding House connected with the other college buildings is open to students. With these new buildings, the institution furnishes desirable accommodations for one hundred and twenty-five students.

The Chemical Laboratory contains two apparatus rooms, a lecture room, a cabinet, a library and weighing room, a recitation room, and rooms for analytical and other purposes, and is in all respects admirably adapted to the wants of the Chemical and Mineralogical departments.

APPARATUS.

The College is furnished with new and valuable apparatus for the departments of Physical Geography, Natural Philosophy and Chemistry, and for Surveying and Civil Engineering, to which additions will be made as the exigencies of the several departments require.
LIBRARY

The Library already contains several hundred volumes, some of which have been obtained by purchase, while others have been kindly donated to the College. It is earnestly hoped that so important an auxiliary in the education of those who are to be students in the College will not be disregarded by the people of the State, but that liberal contributions will be made to it, not only of agricultural and scientific works, but also of works of interest to the general reader.

READING ROOM.


CABINET.

A room in the Chemical Laboratory has been fitted up with cases for Minerals, and a few hundred specimens have been presented to the College. All specimens thus donated will be properly credited and placed on exhibition. Rocks illustrating the different geological formations and minerals found within the State, are particularly solicited.

LITERARY SOCIETY.

A flourishing society has been organized by the students of the College, which holds weekly meetings for declamations, discussions, and other literary exercises.

PUBLIC WORSHIP.

All students are required to attend daily prayers at the College, and public worship on the Sabbath at some one of the neighboring churches, unless excused by the President.

EXPENSES, AND MEANS OF DEFRAYING THEM.

Tuition is free to students from all parts of the State. Those from other States will be charged twelve dollars per term. Room rent is free, and each room is furnished with a bedstead, mattress, table, sink, and chairs. All other bedding and furniture must be supplied by the students, who will also furnish their own lights. Board, washing and fuel, will be furnished at cost. The price of board has been, hitherto, three dollars per week, and fuel and washing fifty cents per week. These bills, with those for incidental expenses, are payable at or before the close of each term.

Students receive compensation for their labor according to their industry, faithfulness and efficiency, the educational character of the labor being also taken into account. The maximum amount paid will be thirty cents for three hours' labor.

The terms are so arranged that the long vacation occurs in the winter, that students may have an opportunity to teach during that time. By means of the amount thus earned, together with the allowance for labor, the industrious and economical student can cancel the greater part of his college expenses.

GENERAL STATEMENT.

Students are required to make their own beds and sweep their own rooms. Each student is required, at the commencement of his college course, to deposit with the Treasurer of the College, a bond for $100, signed by responsible sureties, to secure the payment of his board bill, and any incidental charges.

Strict conformity to college regulations and requirements is the only condition of continued membership of the College.

Candidates for the next class should make early application.

CALENDAR.

1871.
Aug. 31—Thursday, First Term commenced.
Nov. 28 and 29—Tuesday and Wednesday, Examination. First Term closes. Vacation of ten weeks.

1872.
Feb. 6—Tuesday, examination for advanced standing.
Feb. 8—Thursday, Second Term commences.
April 30 and May 1—Tuesday and Wednesday, Examination. Second Term closes. Vacation of one week.
May 9—Thursday, Third Term commences.
Aug. 5 and 6—Monday and Tuesday, Examination.
Aug. 6—Tuesday, Exhibition Junior and Sophomore Classes.
Aug. 7—Wednesday, Commencement.
Aug. 8—Thursday, Examination for admission to College. Vacation of three weeks.
Aug. 27—Examination for admission to College.
Aug. 29—First Term commences.
Nov. 26 and 27—Tuesday and Wednesday, Examination. First Term closes.
DONATIONS.

TO THE LIBRARY.

From Hon. Hannibal Hamlin. Congressional Documents and Miscellaneous Works. 278 volumes.
From Samuel B. Schieffelin, New York City. The Foundations of History. (A Series of First Things.)
From Dr. A. S. Packard, Jr., Salem, Mass. Injurious Insects, New and but Little Known. Pamphlet.
From Hon. S. L. Goodale, Saco. Twenty copies Agriculture of Maine. Second Series.
From Hon. S. H. Dale, Bangor. Centennial Celebration, Bangor.

TO THE CABINET.

From S. P. Bradbury, Bangor. Specimens of marble.
From Prof. M. C. Fernald, Orono. One hundred minerals.

TO THE READING ROOM.

Agricultural College.

To the Farm.

Bay State Horse Rake, by the Buckeye Mowing Machine Company, West Fitchburg, Mass.

Yearling Bull (Jersey,) by Hon. Edward Brooks, West Medford, Mass.

Exchanged a Warrior Mowing Machine, by the company, for one of larger size.

Bull Calf (Jersey,) by George Hamilton, Esq., Dexter.

Four varieties of Potatoes from Michigan, by Mr. John Swift, Detroit, Mich.

Several varieties of Seeds, from the Department of Agriculture, Washington, D. C.

Two Ewe Lambs (South Down,) from Hon. Lyman Dike of Boston, Mass.