

MAINE STATE LEGISLATURE

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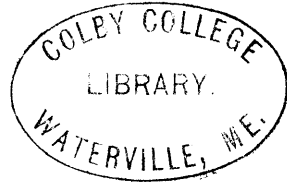


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PUBLIC DOCUMENTS OF MAINE:

1902

BEING THE



ANNUAL REPORTS

OF THE VARIOUS

DEPARTMENTS AND INSTITUTIONS

For the Year 1901.

VOLUME IV.

AUGUSTA
KENNEBEC JOURNAL PRINT
1902

ANNUAL REPORT

OF THE

UNIVERSITY OF MAINE

FOR THE YEAR 1901

PART I.

REPORTS OF TRUSTEES, PRESIDENT AND TREASURER

AUGUSTA
KENNEBEC JOURNAL PRINT
1902

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REPORT OF THE BOARD OF TRUSTEES

To the Honorable Governor and Executive Council of Maine:

The Trustees of the University of Maine respectfully submit their thirty-third annual report, with the reports of the President and Treasurer.

President A. W. Harris closed his labors with the University in December, to assume the Directorship of the Jacob Tome Institute, Maryland. Dr. Harris came to the University of Maine, as its President, in September, 1893. His work during his connection with the institution was one of remarkable success and value. From the beginning to the close of his eight years of service, the University made rapid, constant and satisfactory progress in every direction. During that time the students increased in number from one hundred and thirty-nine to four hundred; and the faculty, from twenty-five to more than fifty. New and important departments were established, the courses of study were broadened and increased in number and the standard of scholarship was raised. Many improvements were made in the campus, and most of the older buildings were remodeled or improved. Several new buildings were erected, the most important being Alumni Hall; so that at the close of his administration Dr. Harris left the institution larger, stronger and in every respect better fitted to do its work than when he became its President.

It was with great reluctance and the most sincere regret that the trustees accepted the resignation of President Harris. They went to the full extent of their authority to induce him to remain, but without success. The inducement of a much larger salary, and the attractions of an institution with an endowment so large that at no time will it probably be necessary for its official head to appeal to any source for additional funds to carry on its work, were too great to be overcome. His departure is a great loss to the educational interests of the State, and is deplored, not only by those intimately connected with the University, but by a host of others, citizens of Maine, who have admired and respected him for his tact and ability, his scholarship, high character and splendid success. They wish him God-speed in his new field of labor.

On December 23d the trustees elected Dr. George Emory Fellows of the University of Chicago to succeed President Harris. Dr. Fellows was graduated from Lawrence University, Wisconsin, in 1879. During the next eight years he was successfully engaged in teaching in leading educational institutions in the West and South. In 1888 and 1889 he pursued

a course of study at the Universities of Berne, Switzerland, and Munich, Germany, receiving the degree of Doctor of Philosophy in 1889 from the University of Berne. From 1891 to 1895 he was Professor of European History in the University of Indiana, since which time he has been connected with Chicago University, where he has done much University Extension work, and has become familiar with the methods of a large number of educational institutions. His endorsements were many in number and of the highest character. He will begin his work as President some time in January. Until then, Dr. M. C. Fernald will serve as President *pro tempore*.

Dr. Harris severed his connection with the University December 20th, and three days later Hon. Wm. T. Haines resigned from the Board of Trustees, because, being a member of the Governor's Council, he could not legally remain longer on the Board. Thus the University met with a severe and double loss in one week. Mr. Haines served as a trustee for nearly nineteen years, and all of that time was Secretary of the Board. He was graduated from the institution in 1876, and received his several appointments as trustee as the choice and representative of the Alumni of the University. He has at all times been one of the most able and staunch friends of the institution. As a member of both branches of the legislature, and as a man, active, strong and influential in the business and political affairs of the state, he has been able in a remarkable degree to render the University constant and effective service. Edwin J. Haskell of Westbrook, an alumnus of the University and a successful business man, has been appointed to succeed Mr. Haines.

To the changes that have taken place in the faculty during the past year Dr. Harris makes minute reference in his report. Notwithstanding the many changes that have occurred, it is believed that the high standard of ability heretofore prevailing in the faculty has been fully maintained.

Gen. Ben. P. Runkle, a graduate of Miami University, of Ohio, and a distinguished officer of the Civil War, has been detailed by the President of the United States, as Professor of Military Science. The institution is fortunate in having a military instructor possessing the superior qualifications of Gen. Runkle. He has already given evidence of his desire not only to promote his own department, but also to aid in the advancement of every interest of the University.

During the year, all the buildings on the Campus have received necessary repairs, and to some of them extensive alterations and improvements have been made, partly as a result of the completion of the new Drill Hall and Gymnasium Building (Alumni Hall). The addition of this fine building has largely increased the facilities of the institution, besides supplying wants of many years standing; and the trustees greatly regret that the departure of Dr. Harris has prevented the fulfillment of his intention to raise personally by subscription the full amount of its cost.

To heat university buildings and furnish power for the shop and lighting plant, a new boiler of one hundred and fifty horse power has been purchased, also new boilers for the greenhouse. The present heating arrangement is inconvenient, unsatisfactory and expensive; and the trus-

tees hope to replace it soon with a complete and properly arranged central heating plant. It is estimated that the operation of such a plant would be less expensive by several thousand dollars a year than the present system, and would repay in a few years its entire cost, in the saving made. In connection with a central heating plant, the important need of a new shop building for the departments of Electrical and Mechanical Engineering should be mentioned. As soon as circumstances will permit, a stone or brick building should be erected to take the place of the old wooden building now in use. Such a building would afford greater protection to the engines, dynamos and other valuable apparatus, and it should contain the proposed central heating plant, and be of sufficient size to meet for many years the increasing demands of the institution.

The present dormitory accommodations are insufficient to supply the wants of the students now in attendance. An increase in the number of students will make it necessary to provide additional dormitory accommodations in the immediate future.

The University of Maine will begin the new year a strong and successful institution. If its needs are promptly met there can be no question as to the continuance of its growth and prosperity.

HENRY LORD,

President of Board of Trustees.

REPORT OF THE PRESIDENT

To the Board of Trustees of the University of Maine:

The President of the University of Maine has the honor to present his ninth annual report, covering the calendar year 1901.

CHANGES IN THE BOARD OF TRUSTEES AND THE FACULTY

With the year 1901, the Hon. William T. Haines will retire from the Board of Trustees because his service as a member of the Governor's Council makes it illegal for him to be longer upon the Board. Mr. Haines was appointed a member of the Board first in 1883. His efficiency is well known to all who are familiar with the University, but it would be ungracious to allow him to retire without formal recognition of his service. His judgment, his faithfulness, his devotion, and, more than all, his courage, have been a power which cannot be appreciated too highly. The University suffers a great loss in his retirement. The President takes the opportunity to record his personal obligation to Mr. Haines for his confidence, support and courtesy, and for the cordial friendship of which Mr. Haines has furnished so many proofs.

The President of the University presented his resignation to the Trustees in September. It takes effect at the end of the calendar year. The President took this step with great regret at leaving the University; but the Directorship of the Jacob Tome Institute, which he is to assume, offered inducements that he could not afford to neglect.

Benjamin Piatt Runkle, L. H. D., was detailed by the President of the United States in April as Professor of Military Science. The professorship had been vacant since the outbreak of the war with Spain, and for two years the work of the military department had been discontinued. General Runkle is a graduate of Miami University. He served with great distinction during the Civil War and attained the rank of Colonel in the United States Army. He was severely wounded, and shortly after the close of the war was retired with the brevet rank of Brigadier General. Before coming to us, he was Professor of Military Science in Miami University.

Garnett Ryland, Ph. D., Assistant Professor of Chemistry, resigned to accept an appointment as Professor of Chemistry in Converse College, South Carolina. His departure is a real loss to the University. His scholarship, his rare ability as a teacher and many happy personal qualities made him an instructor of more than usual efficiency.

Gilbert Hillhouse Boggs, Ph. D., has been appointed Instructor in Chemistry to succeed Professor Ryland. Dr. Boggs pursued his undergraduate course at the University of Georgia, where he graduated in 1898. He then became a graduate student for three years in the University of Pennsylvania, and received the degree of Ph. D. in 1901.

Orlando Faulkland Lewis, Ph. D., has been promoted from Assistant Professor to be Professor of Modern Languages.

Reginald Rusden Goodell, M. A., Instructor in Modern Languages, has been appointed Instructor of Modern Languages in the Massachusetts Institute of Technology. He was a very efficient teacher.

Phillip Warner Harry, B. A., a graduate of Johns Hopkins University in 1898, and for two years a graduate student in the same institution, has been appointed Instructor in Modern Languages.

Charles Partridge Weston, C. E., Instructor in Civil Engineering, resigned to pursue a course of graduate study in Columbia University. Mr. Weston has been connected with the Faculty since his graduation in 1896, and has done most efficient service.

Harold Sherburne Boardman, C. E., a graduate of the University in the class of 1896, who served as a tutor in civil engineering from 1897 to 1899, has been appointed Instructor in Civil Engineering.

Forest John Martin, LL. B., and Hugo Clark, B. S., have been advanced from lecturers in the School of Law to be Instructors.

Arthur Wellington Price, B. A., LL. B., Instructor in the School of Law, has resigned because of a serious illness, which has compelled him to abandon, temporarily, both teaching and practice. He is a graduate of the school, and as a student exhibited fine abilities and maintained a brilliant record. His resignation was accepted with sincere sympathy on the part of the Dean of the school, and of the President of the University. Mr. Price's work has been divided, and given to Mr. Pattangall and Mr. Simpson.

William Robinson Pattangall, M. S., has been appointed Instructor in Law. He was a member of the class of 1884 of the University of Maine, but did not complete his course. In 1897 he received the degree of M. S. from the University. He was admitted to the bar in 1893 where he has gained a reputation for marked ability. He was a prominent member of the Maine Legislature in 1897 and 1901.

Edgar Myrick Simpson, B. A., has been appointed Instructor in Law. He graduated from Bowdoin College in 1894, was admitted to the bar in 1897, and has had several years of successful experience in teaching.

Fred Hale Vose, B. M. E., has been advanced from Tutor to be Instructor in Mechanical Engineering.

Edwin Carlton Upton, B. S., Assistant in English and Modern Languages, has entered upon a course of graduate study in Columbia University.

Guy Andrew Thompson, M. A., has been appointed Tutor in English. He is a graduate from the classical course of the University of Illinois in 1898, and received the degree of M. A. from Harvard University in 1901.

William Porter Beck, B. S., Tutor in Physics, resigned after service of one year to accept an appointment as Assistant Professor of Physics in Colby College.

John Emerson Burbank, M. A., who succeeds him, is a graduate of Bowdoin College in 1897, has spent two years in graduate study at Harvard University and received the degree of M. A. in 1899. He has been Assistant in Physics in Bowdoin College, and during 1899-1900 had entire charge of the department of Physics there.

George Harold Davis, B. S., a graduate of the University in 1901, has been appointed Tutor in Electrical Engineering in place of Alden Bradford Owen, B. M. E., who resigned to enter upon the practice of his profession.

Mr. Frank Henry Mitchell, B. S., has been promoted from Assistant to be Tutor in Chemistry.

Archer Lewis Grover, B. M. E., has been appointed Physical Director. Mr. Grover is a graduate of the University in the class of 1900. He was much interested, when a student, in all branches of athletics, and twice succeeded at the Worcester intercollegiate meet in breaking the record for throwing the discus.

George Edward Poucher, B. S., a graduate of De Pauw University in 1901, has been appointed Assistant in Biology.

Louis Robinson Cary, B. S., a graduate of the University in 1901, has been appointed Assistant in Biology.

Horace William Britcher, B. C. E., has been appointed Assistant Zoologist in the Experiment Station. He is a graduate of Syracuse University, has pursued graduate courses in biology in Johns Hopkins University, and has been Assistant Biologist at Johns Hopkins and at Syracuse.

Marshall Baxter Cummings, B. S., has been appointed Assistant in Horticulture and Botany. Mr. Cummings was a graduate of the University of Vermont in 1901, and has been Assistant in Horticulture in that institution.

DEGREES CONFERRED

The following is the list of degrees conferred at the last commencement:

SHORT COURSE IN PHARMACY

Richard Henry Berry, Ph. C., Montville.
John Foy Sanford, Ph. C., Lewiston.

FOUR YEARS COURSES

Charles William Bartlett, B. S. in Electrical Engineering, North New Portland.
Mark Jonathan Bartlett, B. Ph., Montville.
Wales Rogers Bartlett, B. A., Center Montville.
John Harold Bixby, B. S. in Civil Engineering, Anson.
Oscar Merrill Bixby, B. S. in Mechanical Engineering, Anson.

- William Harris Boardman, B. S. in Civil Engineering, Calais.
Fred Hammond Hanson Bogart, B. S. in Mechanical Engineering
and B. S. in Electrical Engineering, Chester, Conn.
Thomas Buch, B. S., Orland.
Lewis Robinson Cary, B. S. in Agriculture, Bowdoinham.
Arthur Leroy Cobb, B. S. in Electrical Engineering, South Vas-
salboro.
Charles Elmer Chosby, B. S. in Agriculture, Albion.
Fred Merrill Davis, B. S. in Electrical Engineering, Lewiston.
George Harold Davis, B. S. in Electrical Engineering, Auburn.
Benjamin Franklin Faunce, B. S. in Mechanical Engineering,
Norway.
Elsie Eunice Fitzgerald, B. Ph., Oldtown.
Harold Morrill Folsom, B. A., Oldtown.
Gertrude Lee Fraser, B. Ph., Oldtown.
Joseph Edward French, B. S. in Electrical Engineering, So.
Chesterville.
George Estyn Goodwin, B. S. in Civil Engineering, Gorham, N. H.
Emily Hamlin, B. S., Orono.
Clifford Dawes Harvey, B. S. in Chemistry, Lewiston.
Leroy Harris Harvey, B. S., Orono.
Ernest Judson Howe, B. S. in Civil Engineering, So. Lancaster,
Mass.
Henry Perez Hoyt, B. S. in Civil Engineering, Fort Fairfield.
Percy Raymond Keller, B. S. in Mechanical Engineering, West
Rockport.
Herbert Henry Leonard, B. S. in Mechanical Engineering, Orono.
Frank Holt Lowell, B. S. in Mechanical Engineering, No. Pen-
obscoot.
Bertrand Clifford Martin, B. S. in Civil Engineering, Fort Fair-
field.
Fred Lewis Martin, B. S. in Electrical Engineering, Franklin.
Maurice Barnaby Merrill, B. A., Stillwater .
Charles Augustus Mitchell, B. S. in Mechanical Engineering, West
Newfield.
Harry Charles Pritham, B. S. in Chemistry, Freeport.
Alson Haven Robinson, B. S., Orono.
Mowry Ross, B. S. in Electrical Engineering, West Woodstock,
Conn.
Samuel Day Thompson, B. A., Bangor.
Lewis Goodrich Varney, B. S. in Civil Engineering, Windham
Center.
Thomas Hale Ward, B. S. in Electrical Engineering, Fryeburg.
Ernest Lauren Watson, B. S. in Mechanical Engineering, Bruns-
wick.
Frank Erwin Watts, B. S. in Electrical Engineering, West Fal-
mouth.
Stephen Edward Woodbury, B. S. in Electrical Engineering and
B. S. in Mechanical Engineering, Beverly, Mass.

Ralph Geddes Wormell, B. S. in Mechanical Engineering, Water-ville.

SCHOOL OF LAW

Ernest Clifford Butler, LL. B., Skowhegan.
Benjamin Franklin Butterfield, LL. B., Danforth.
Nathan Grant Foster, LL. B., Weld.
Frank Plumstead, LL. B., Wiscasset.

The second degree was conferred upon the following persons who had complied with the statutes in regard to the requirements for advanced degrees.

MASTER OF SCIENCE

Oliver Otis Stover, B. S. (1899)
James Arthur Hayes, B. S. (1900)
Frank Henry Mitchell, B. S. (1900)
Percy Leroy Ricker, B. S. (1900)

CIVIL ENGINEER

Wendall Wyse Chase, B. C. E. (1895)
James William Martin, B. C. E. (1895)
William Thomas Brastow, B. C. E. (1897)
Llewellyn Nathaniel Edwards, B. C. E. (1898)
Fred William Sawtelle, B. C. E. (1898)

ELECTRICAL ENGINEER

Albion Dana Toppliff Libby, B. M. E. (1898)
Ray Herbert Manson, B. M. E. (1898)

GRADUATE IN PHARMACY

William Bryant Webster (1899)

PHARMACEUTICAL CHEMIST

George Pearson Larrabee (1900)

STUDENTS

The number of students for the year ending June 1901 was 382. For the year beginning September 1901 it will exceed four hundred. The number of new students admitted at the beginning of this academic year is 143 at Orono, and 20 at Bangor.

Of these 117 enter the freshman class in four year courses; 11 enter the Short Course in Pharmacy, making a total of 128 freshmen in the collegiate departments; 20 enter the School of Law; the others have been admitted to advanced standing or as special students in the collegiate departments.

Among the students are representatives of all the counties of the State, the largest number belonging to Penobscot county, the next to Cumberland county, and the smallest to Hancock county. Penobscot and Cumberland counties lead also in the number of students in proportion to population. The number of women students is 16.

Of the new students 121 come from Maine, 15 from Massachusetts, 1 from Connecticut, 1 from Florida, 2 from New Brunswick and 1 from Bulgaria. Sixty-six preparatory schools are represented. The Bangor High Schools sends the largest number. The average age for the freshman class at admission is nineteen years, eight months. The age of the oldest student is thirty-five years, three months; of the youngest, fifteen years, three months.

SCHOOL OF LAW

The School of Law maintains its success. The Faculty consists of twelve persons, including the President of the University and the Librarian. Two are professors who give their whole time to the school, four are instructors, and four are lecturers. The number of students for the year 1900—1901, was thirty-seven; for 1901—1902 it is forty-seven. The Library has been largely increased during the year. The gain in number of students, though not large, is encouraging; but the most noteworthy fact is the excellence of the work done by the school, which is now becoming evident, and is being better appreciated by the public. The graduates have maintained an enviable standing in their examinations for admission to the bar.

BUILDINGS

During the year, a wooden building, formerly attached to the Commons, has been moved about four hundred feet to the south and refitted for the joint use of the Art Guild and of the Young Men's Christian Association. About eight hundred dollars have been expended, nearly all of which was raised through personal solicitation by Professor Huddilston, to whom great credit is due.

The room in Oak Hall, formerly occupied by the Association, has been made into three dormitory rooms. The capacity of the dormitory has been increased still more by removing the bath room on the first floor to the basement, and cutting the space into two dormitory rooms.

The large room on the third floor of Coburn Hall, formerly used as a chapel, has been cut into five rooms, including one lecture room that will accommodate ninety persons, two recitation rooms that will accommodate forty persons each, a seminary room for the department of Modern Languages, and a laboratory for the department of Philosophy. The large lecture room is used, for the most part, by the department of Civics and History. The recitation room upon the second floor, formerly used by this department, is assigned to the department of English, and the recitation room upon the first floor, originally belonging to the department of Agriculture, but of necessity used for several years by the department of English, is now returned to the department of Agriculture, though still used occasionally by the professor of English. The depart-

ment of Mathematics has been assigned an office and two recitation rooms in the new Alumni Hall. The room on the second floor of Wingate Hall, formerly used by this department, has been refitted as an additional Physics laboratory; and the room used as a study by the Professor of Mathematics is now in use as a private room for investigation in Physics. The room of the Mathematical department on the first floor is used by the departments of Mechanical Engineering and Electrical Engineering.

All the buildings have been thoroughly repaired during the summer. Wingate Hall, Coburn Hall and Fernald Hall have been painted. The cellar of "The Maples" has been cemented.

The heat and power plant has been strengthened by the addition of a new Wilcox and Babcock boiler of one hundred and fifty horse power capacity. This was imperative in order to heat the buildings and to furnish power for the shops and the lighting plant. The need of a new plant was called to the attention of the legislature, which was requested to make an appropriation of \$25,000; but the request was denied. The present expenditure makes only a temporary provision. The location of the boiler house is unfortunate, and only a part of the buildings are heated from the central plant. The expenses of this system are wasteful. It has been necessary to purchase new temporary boilers for the green house. There is a large loss in the buildings not connected with the general heating plant, caused by the use of anthracite instead of bituminous coal. It is estimated that even if a new plant be furnished by an appropriation of the next legislature, the delay will involve a net loss of about \$7,000. Effort has been made to keep down expenses, and though, at the time of writing, a deficit seems unavoidable, it will not exceed three thousand dollars, a sum less than the outlay upon the heating plant.

The most important addition to the equipment of the University has been the completion of Alumni Hall. This is a brick building of impressive size and appearance, two stories in height. It is constructed in the form of the letter T. The cross, facing the street, contains on the ground floor, south side, offices for the Trustees, the President, the Secretary, and the Treasurer, a room for the stenographers, and storage. On the north side are two large recitation rooms and an office for the department of Mathematics. Above these rooms is the chapel, a room 113 feet long and 38 feet wide, running through one story and into the roof. It is a handsome room, the chief ornamental feature being the wooden screen back of the platform extending across one end of the room; the open roof supported by great wood trusses; and the choir gallery, containing a large pipe organ. The upright of the T contains in the basement, the office of the Professor of Military Science, bowling alleys, the office of the Physical Director, the bath room, locker rooms, bicycle storage, and general storage room. On the second floor is the room used as a drill hall and gymnasium, 60 feet by 100 feet, with a running track nine feet wide suspended from the roof.

The building has been equipped throughout. The two locker rooms, one for men and one for women, contain lockers for 350 students. The drill hall and gymnasium room has been furnished with a complete set

of gymnasium apparatus, and with lockers for the storage of guns and other military equipment. The chapel is arranged to seat 450 persons, but will accommodate 600.

To pay for this building, subscriptions have been received for about half the estimated cost. The subscriptions are payable in installments, some of which are not yet due. In the meantime, what funds are necessary to complete the payment on the building have been taken from the current income. It is possible to do this at a small cost, by making a temporary loan at the end of the fiscal year. This is due to two facts. First, the United States pays the whole annuity which it allows for instruction, at the beginning of the fiscal year, and under ordinary conditions the University has, during a part of the year, a considerable sum in the bank, largest in the early months of the year. Secondly, the fiscal year of the college ends on the 30th of June, but the first monthly installment of salary is paid in October. There should be, therefore, in the hands of the Treasurer, on the first of July of each year, a considerable sum of money for the discharge of four installments of salaries, due for services completed before the 30th of June. There should be also in the hands of the Treasurer a smaller sum to discharge June bills, not salaries, which, according to custom, are not paid until July.

NEEDS OF THE UNIVERSITY

The most pressing need of the University is a proper heating and power plant. Other needs are a new building for the shop and for the technical work of the department of Mechanical Engineering; an infirmary for the care of sick students; provision for increasing the dormitory accommodations. The increase may be obtained either by securing loans for student associations to aid them in building houses, or by erecting a new university dormitory.

The President hesitates to make recommendations at the end of his administration which must be carried out, if at all, after its close; but he cannot refrain from urging the justice and need of increasing the salaries of the professors. They are receiving now the salary they had when he came to the University, eight years ago. At that time the number of students was very few in excess of one hundred; all classes were relatively small. The number of students has increased to more than four hundred. There have been additions to the Faculty, but many of the new officers are young men in subordinate positions, and they have added to the responsibilities, if not to the actual labor of the professors. The professors, also, have increased work because of increased classes, and many of them are teaching long hours. The scale of living among the professors has been rising with that of the community. Prices have risen also as an incident of good times. Carefully kept accounts show that a member of the Faculty with \$1800 was really three hundred dollars better off eight years ago than today.

During this period the State has raised the salary of very many of the State officers. Business salaries have been increased and the income of men in business greatly advanced. These very facts make it more diffi-

cult for our professors to live comfortably. The salaries paid in other New England colleges are now, in almost all cases, higher than those at Orono. This fact is a serious menace to the prosperity and usefulness of the University. It has been singularly fortunate in obtaining teachers of scholarship, ability and power, but it is idle to hope either to obtain or retain such men unless the University makes some advance in its salaries. This recommendation is made without suggestion from the Faculty, who have assumed increasing burdens with enthusiasm, showing anxiety only to promote the growth and prosperity of the University, content to wait patiently for a share in its prosperity. The strongest argument for an increase in salary is that justice demands it.

The President trusts that he may not be thought to transgress the bounds of propriety if he indulges his wish to place on record, in this last report, his love for the State, his respect for the sturdy and rugged character of its people, and his gratitude for the courtesy with which he has been treated by press and people. This courtesy has been very nearly without exception, although he has been the representative of what is for the time perhaps the most conspicuous movement of the State in higher education, and one about which there has been great difference of opinion. He confidently expects the future to show that the legislature would have done wisely if it had dealt with the University even more liberally, but he is grateful for the honest consideration accorded to the matters which he has presented, a consideration more favorable in its results than many persons thought possible. Nor does he fail in gratitude for the help afforded in appropriations which are doubtless liberal if measured by the means at the disposal of the State. If ever he has seemed over zealous, he pleads his belief that in the University there is the possibility of great public service, a service greatly more important than the general public yet realizes.

For the Trustees of the University, the Faculty, and the students, he entertains feelings of affection which it is difficult to state.

In conclusion, he reiterates his profound belief in the great principle on which the State University rests. It was establishing to promote the liberal and practical education of the industrial classes in the various pursuits and professions of life. The United States Act in which this purpose was defined, was framed so as to require great appropriations from both the National and State governments in the furtherance of its object.

Thus the University of Maine is the child of both the Nation and of the State. By the Acts of the foundation it is dedicated to the great democratic ideal, as applied to education. This democracy in higher education recognizes all learning as of equal dignity, giving place not only to those classical and scientific studies which were the traditional elements of a liberal education, but providing as well for all those branches of learning, old and new, which relate to the arts, industries, and professions of life.

This democracy is an education of the people, by the people; through it the man, lifted above his fellows, is lifted by his fellows; and the power and skill of the learned, being obtained at the cost of the people,

belong to the people, to be used as a trust for the service of the public. It is a part of the mission of the University of Maine to serve as a constant reminder to the State that it is the right and the duty of the State to foster and control the higher education as well as the lower, and that while she extends to private institutions the heartiest welcome to this work, she may not surrender her rights and duties to the complete control of private beneficence. No object of State appropriation is more proper or more worthy than the fostering of education, not only in its elements, but in all grades; not only in the traditional lines of study, but in all those lines that qualify the people for better citizenship. There is no better expression of the ideal of which the University of Maine is the only representative in New England than that statement by Ralph Waldo Emerson which the University has been accustomed to print on every catalog, in which he sets forth the great New England ideal of education, sometimes forgotten and obscured, but true; and destined to become more and more efficient as an ideal:

"I praise New England because it is the country in the world where is the freest expenditure for education. We have already taken, at the planting of the colonies, (for aught I know for the first time in the world) the initial step, which for its importance might have been resisted as the most radical of revolutions, thus deciding at the start the destiny of this country,—this, namely, that the poor man, whom the law does not allow to take an ear of corn when starving, nor a pair of shoes for his freezing feet, is allowed to put his hand into the pocket of the rich, and say, 'you shall educate me, not as you will, but as I will; not alone in the elements, but, by further provision, in the languages, in sciences, in the useful and in elegant arts.' The child shall be taken up by the State, and taught, at the public cost, the rudiments of knowledge, and, at last, the ripest results of art and science."

A. W. HARRIS,

President.

REPORT OF THE TREASURER

To the Trustees of the University of Maine:

The Treasurer has the honor to submit the following report concerning the financial condition of the University, June 30, 1901.

RECEIPTS OF THE UNIVERSITY FROM JULY 1, 1900, TO JUNE 30, 1901.

Cash balance July 1, 1900.....		\$22,554 66
Land Grant Fund	\$5,915 00	
Coburn Fund	4,000 00	
Morrill Fund	25,000 00	
The State	20,000 00	
Rents	1,372 86	
Bills Receivable	1,132 11	
Interest	720 16	
School of Law	1,680 00	
Library Fines	29 41	
Diplomas	157 78	
Personal Collections (A. & L.).....	125 78	
Commons (old bills).....	1,023 55	
Drill Hall Subscriptions	3,072 96	
Mt. Vernon House (old bills).....	194 56	
Sundry Small Receipts.....	496 91	
Student Receipts.....	18,900 08	83,821 16
		\$106,375 82

NET EXPENSES OF THE UNIVERSITY FROM JULY 1, 1900, TO JUNE 30, 1901.

Current Expenses:		
Salaries		\$44,638 75
Departments:		
Agriculture	\$1,324 50	
Bacteriology and Veterinary Science	45 59	
Chemistry	107 34	
Civil Engineering	122 14	
Electrical Engineering	404 61	
Greek	136 25	
Latin	28 46	
School of Law	1,082 45	
Logic and Civics	50 00	
Library	2,464 12	
Mathematics and Astronomy.....	2,301 02	
Mechanical Engineering	117 09	
Military Science	6 44	
Modern Languages	20 51	
Natural History and Biology	1,750 86	
Philosophy.....	199 90	
Physics	113 89	
Shop.....	579 42	10,854 59
		\$55,493 34

NET EXPENSES—*Concluded.*

General Expenses:		
Advertising.....	\$920 38	
Care of Buildings.....	834 99	
Commencement.....	300 90	
Field Day.....	22 63	
Freight and Express.....	553 27	
Furniture and Fixtures.....	1,368 59	
Care of Grounds.....	542 27	
Improvement of Grounds.....	313 67	
Heating Buildings.....	2,156 63	
Incidentals.....	173 22	
Insurance.....	2,434 92	
Lighting Buildings and Grounds.....	1,759 87	
Light Station.....	2,490 94	
Miscellaneous.....	1,448 40	
Office.....	162 09	
Postage and Stationery.....	593 76	
Prizes.....	50 00	
Treasury.....	94 24	
Reading Room.....	46 75	
General Repairs.....	3,054 53	
Text Books.....	434 60	
Trustees' Expenses.....	100 00	
Water.....	620 68	
Sundry Expenses.....	276 45	\$20,753 78
Cost of Maintaining the University for the Year ...		\$76,247 12
Alumni Hall (Drill Hall).....		26,948 20
Coal Pit.....		778 71
Heating Plant.....		1,733 75
Observatory.....		327 49
Track.....		109 99
		\$106,145 26
Cash Balance June 30, 1901.....		230 56
		\$106,375 82

ACCOUNT WITH THE UNITED STATES GOVERNMENT APPROPRIATION UNDER THE MORRILL ACT FOR THE YEAR ENDING JUNE 30, 1901.

RECEIPTS.		
Received from the United States, July 12, 1900.....		\$25,000 00
EXPENDITURES.		
Department of Agriculture.....	\$6,750 00	
Mechanic Arts.....	8,600 00	
English Language.....	2,100 00	
Mathematical Science.....	3,200 00	
Natural or Physical Science.....	2,550 00	
Economic Science.....	1,800 00	\$25,000 00

Respectfully submitted,

ISAIAH K. STETSON, *Treasurer.*

I hereby certify that I have examined the accounts of the Treasurer and find them correctly kept and properly vouched.

ELLIOTT WOOD, *Auditor.*

CATALOGUE OF THE GRADUATES

An asterisk (*) indicates deceased, and a dagger (†) indicates not heard from.

1872.

- Gould, Benjamin Flint, C. E., Hollister, Calif.,
Irrigation Engineer.
- Hammond, George Everett, C. E., Eliot,
Chief Clerk, Department of Yards and Docks, U. S. Navy Yard,
Portsmouth, N. H.
- Haskell, Edwin James, B. S., Westbrook,
Silk Manufacturer.
- Hilliard, Heddle, C. E., Oldtown,
Civil Engineer.
- Thomas, Eber Davis, Station B, Grand Rapids, Mich.,
Farmer.
- Weston, George Osmer, B. S., Madison,
Farmer.

1873.

- Eaton, Russell William, C. E., Brunswick,
Agent, Cabot Manufacturing Company.
- Hamlin, George Herbert, C. E., Orono,
Civil Engineer.
- Holt, Fred William, C. E., 94 Prince William St., St. John, N. B.,
Civil Engineer.
- Oak, John Marshall, B. S., Bangor,
Postmaster, Bangor Post Office.
- *Reed, Charles Emery, C. E.
- Scribner, Frank Lamson, B. S., Manila, Philippine Islands,
Chief of Insular Bureau of Agriculture.
- Thayer, Harvey Bates, B. S., Presque Isle,
Druggist.

1874.

- *Allen, William Albert, C. E.
- *Balentine, Walter, M. S.

- †Gerrish, William Herbert, B. S., M. D., Deering Centre,
Physician.
- †Gurney, John Irvine, B. S., Highland St., Dorchester, Mass.,
Florist.
- †Hunter, Rodney David, B. S., 535 25th St., Oakland, Calif.,
Insurance Agent.
- Ramsdell, Louise Hammond, B. S., Maple,
(Mrs. Milton D. Noyes.)

1875.

- Bates, Solomon Wheaton, C. E., First National Bank Building, Portland,
Patent Lawyer.
- Bumps, Wilbur Allerd, C. E., M. D., M. S., Dexter,
Physician.
- *Clapp, Samuel Hervey, C. E.
- †Coburn, Lewis Farrin, C. E., Yreka, Calif.,
Lawyer.
- Colesworthy, Charles Franklin, B. S., Pendleton, Ore.,
Grain Dealer.
- *Durham, Charles Frederic, C. E.
- Goodale, Alfred Montgomery, B. S., 64 Highland St., Cambridge, Mass.,
Treasurer, Boston Manufacturing Company.
- Hitchings, Edson Forbes, C. E., M. S., Waterville,
Market Gardener.
- Jordan, Whitman Howard, M. S., Sc. D., Geneva, N. Y.,
Director, New York Agricultural Experiment Station.
- Mayo, Edward Doliver, M. E., 2015 Elliott Ave., Minneapolis, Minn.,
Consulting Engineer, Barnett & Record Company.
- Mitchell, Albert Eliphalet, M. E., Milwaukee, Wis.,
Assistant Superintendent of Motive Power, Chicago, Milwaukee
and St. Paul Railway.
- Mitchell, Allen Gilmore, C. E., Pittsburg, Pa.,
Superintendent (Monongahela Division) Pennsylvania R. R.
- *Moore, Fred Lamson, B. S.
- Rogers, Luther Woodman, B. S., 59 South Forsyth St., Atlanta, Ga.,
Wholesale Grocer.
- Sewall, Minott Wheelwright, M. E., Roselle, N. J.,
Superintendent Engineering Department, Babcock and Wilcox
Company, 85 Liberty St., New York, N. Y.
- Shaw, George Moore, C. E., 969 Broadway, Oakland, Calif.,
Lawyer, firm of Johnson & Shaw.
- Southard, Louis Carver, M. S., 73 Tremont St., Boston, Mass.,
Lawyer. Lecturer, University of Maine School of Law.
- Webb, Wesley, M. S., Dover, Del.
Inspector of Orchards and Nurseries of Delaware.
- *Work, Edgar Alexander, C. E.

1876.

- Abbott, Edmund, B. S., M. D., 148 Broadway, Providence, R. I.,
Physician and Surgeon.
- Allen, Charles Plummer, B. S., Presque Isle,
Lawyer.
- Beckler, Elbridge Harlow, C. E., 1838 Aldine Ave., Chicago, Ill.
Engineer and Superintendent of Construction, Winston Bros.,
R. R. Contractors.
- Bisbee, Fred Milton, C. E., Nashville, Tenn.,
Chief Engineer, Tenn. Construction Co., and Tenn. Central Ry.
Co., Homestead Bldg.
- Blanding, Edward Mitchell, B. S., Bangor,
Editor and Publisher, Maine Industrial Journal.
- *Brainard, Charles M., B. S.
- *Buker, George Haskell, B. S.
- Cowan, Florence Helen, B. S., 46 Summer St., Lynn, Mass.
- Crosby, Oliver, M. E., St. Paul, Minn.,
President and Engineer, American Hoist and Derrick Co.
- *Cyr, Vetal, B. S.
- *Dike, James Edward, C. E.
- *Dike, Willis Oliver, B. S.
- Estabrooke, Horace Melvin, M. S., M. A., Orono,
Professor of English, University of Maine.
- Farrington, Arthur Manly, B. S., B. V. S., 1436 Chapin St., Washing-
ton, D. C.,
Veterinarian, Chief of Inspection Division, Bureau of Animal
Industry, U. S. Department of Agriculture.
- Foss, George Obed, C. E., Elko, B. C.,
Contractor, Firm of Foss & McDonell.
- Haines, William Thomas, B. S., LL. B., Waterville,
Lawyer. Attorney General of Maine.
- Hamilton, Harry Fairfield, B. S., D. M. D., 125 Marlborough St., Bos-
ton, Mass.,
Dentist.
- Haskell, Newall Prince, B. S., Custom House, Portland,
Deputy Collector of Internal Revenue, District of N. H., 5th
Division.
- How, Edward Stevens, M. E., Baltimore Md.,
Chief Clerk, Light House Inspector's Office.
- †Hubbard, Philip Wadsworth, B. S., 438 West 33 St., Los Angeles, Calif.,
Mail Carrier.
- Jones, Samuel Messer, M. E., 35 Wilcox St., Springfield, Mass.,
Treasurer of the Commonwealth Industrial Company.
- Lewis, Albert Augustus, B. S., Waterville, Me.
Pastor M. E. Church.
- Long, Herbert Augustine, M. E., Roque Bluff,
Farmer and Mechanic.

- †Lothrop, Luther Ramsdell, C. E., Lothrop, Minn.,
Chief Engineer, Brainerd and Northern R. R.
- Martin, Nelson Hussey, B. S., Fort Fairfield,
Merchant.
- Oak, Charles Edson, M. E., Bangor,
Vice President and General Manager of American Realty Co.
- Parks, George Daniel, C. E., LaFayette, Ind.,
Lawyer.
- Peirce, Hayward, B. S., Frankfort,
General Granite Business.
- Reed, Frank Radford, C. E., Rumford Falls,
Assistant Engineer, Rumford Falls Power Co.
- Reynolds, Henry Jones, B. S., Eastport,
Pharmacist.
- Rogers, Charles Wilson, M. E., 281-289 S. Clinton St., Chicago Ill.,
With B. F. Sturtevant Co.
- Stevens, William Lewis, M. E., 827 Guaranty Loan Building, Minne-
apolis, Minn.,
Exporter of Flour.
- Williams, John Howard, B. S., Elk River, Minn.,
County Surveyor.

1877.

- Blackington, Alvah De Orville, C. E., 507 Elm St., Dunmore, Pa.,
Treasurer Consumer's Ice Co., Secretary Dr. Hand Condensed
Milk Co.
- Burns, Robert Bruce, C. E., 2642 Vermont Ave., Los Angeles, Calif.,
Chief Engineer, Santa Fe Pacific Railroad Co., Southern Calif.
Ry. Co., San Francisco and San Joaquin Ry. Co.
- Dakin, Eugene Herbert, B. S., 22 Harlow St., Bangor.
Proprietor Bangor Sporting Goods Co.
- Danforth, Edward Franklin, B. S., LL. B., Skowhegan,
Lawyer.
- Elkins, Augustus Jerome, B. M. E., 57 Chamber of Commerce, Minne-
apolis, Minn.
Bookkeeper, Crown Elevator Co.
- Emery, Alicia Towne, B. S., Orono.
- Gould, Samuel Wadsworth, B. S., Skowhegan,
Lawyer.
- * Lunt, Joseph Cony, B. C. E.
- Phillips, Fred Foster, B. S., 26 Charles St., Portland, Maine,
Broker.
- * Shaw, Samuel, B. M. E.
- Stevens, Thomas Jefferson, B. M. E., Auburn,
Druggist.
- Stone, Frank Pierce, B. S., 143 Main St., Norway,
Druggist.
- † Sturgis, George Eugene, B. C. E., Portland, Ore.,
Travelling Salesman.

- Towne, Charles Elmer, B. C. E., Rocky Bar, Idaho,
Mining Engineer and Superintendent of Mines.
- Weeks, Nellie Estelle, B. S., Orono,
(Mrs. Llewellyn Spencer.)
- Weeks, James Walter, B. M. E., Castine, Me.,
Contracting Architect.
- † Webster, Ivan Eldorus, B. S.
- Brown, Emma, B. S., Enfield,
(Mrs. Charles Gilman.)
- † Caldwell, Andrew James, B. M. E., 120 Liberty St., New York, N. Y.,
General Superintendent and Mechanical Engineer, with Henry
R. Worthington.
- Chamberlain, Cecil Calvert, B. S., Enderlin, N. D.,
Lumber Dealer.
- Fernald, George Everett, B. C. E., Wilmette, Ill.,
Commercial Salesman.
- † Heald, James, B. S., 1408 3rd Ave., Seattle, Wash.,
Civil Engineer and Surveyor.
- Locke, John, B. S., 238 St. John St., Portland,
Chief Clerk, General Freight Department, Maine Central R. R.
- Oakes, Frank Judson, B. C. E., care of H. R. Worthington, Brooklyn,
N. Y., Box 14,
Mechanical Engineer.
- Patterson, John Cameron, B. C. E., Great Falls, Mont.,
Resident Engineer, Great Northern Railway.
- Tripp, Winfield Eastman, B. C. E., LL. B., Iron River, Wis.,
Lawyer and Municipal Judge.
- Walker, Edward Colby, B. S., Bridgton,
Lawyer.
- Webster, Otis Colby, B. S., Bowditch, Webster & Co., Augusta,
Druggist.

1879.

- † Bean, Harry Percy, C. E., Care of G. S. Bean, 4 Eden Ave., Campbell,
Calif.,
Ranchman.
- Blake, Edward Josiah, C. E., 205 Adams St., Chicago, Ill.,
Consulting Engineer, Chicago, Burlington and Quincy Rail-
road Co.
- Crosby, Simon Percy, B. S., 803 Goodrich Ave., St. Paul, Minn.,
Lawyer, Offices 610-611 Globe Building.
- Cutter, John Dana, B. S., M. D., Tomahawk, Wis.,
Physician and Surgeon.
- Decker, Wilbur Fisk, M. E., Andrus Building, Minneapolis, Minn.,
Vice President St. Anthony Falls Bank.
- Decrow, David Augustus, B. C. E., Member American Society of Mechan-
ical Engineers, Lockport, N. Y.,
Chief Engineer, Holly Manufacturing Co.

- Ferguson, Willis Edwin, B. S., Tempe, Ariz.,
Superintendent and Local Manager Seedless Grape and Vine-
yard Co.
- Gibbs, Charles Wingate, C. E., Telluride, Colo.,
Civil and Mining Engineer.
- Gould, Annie May., B. S., 5057 Fairmont Ave., St. Louis, Mo.,
(Mrs. Loomis F. Goodale.)
- * Holt, Nellie Maud, B. S.
- Kidder, Frank Eugene, C. E., Ph. D., Fellow American Institute of
Architects, 628 14th St., Denver, Colo.,
Consulting Architect and Structural Engineer.
- Libby, Mark Dunnell, B. C. E., El Reno, Okl. Ter.,
Lawyer.
- * Loring, Charles Sewall, B. M. E.
- Merrill, George Perkins, M. S., Ph. D., U. S. National Museum, Wash-
ington, D. C.,
Head Curator, Department of Geology.
- † Meserve, John William, B. M. E., The Westinghouse Electric & Mfg.
Co., East Pittsburgh, Pa.,
Mechanical Engineer, Westinghouse Electric & Manufactur-
ing Co.
- Moore, Arthur Lee, B. S., Camden,
Agent, Boston and Bangor Steamship Co.
- Morse, Charles Adelbert, C. E., 1304 Van Buren St., Topeka, Kansas,
Assistant Engineer, Atchinson, Topeka and Santa Fe Ry. Co.
- Potter, Frederick David, B. M. E., 43 Cortland St., New York City, N. Y.,
President Potter Separator Co.
- * Shaw, Alton Jhacellous, B. M. E.
- Vinal, Percia Ann, M. S., Orono,
(Mrs. Albert White.)
- † Warren, George Otis, B. S., Fryeburg,
Farmer.
- † Webster, Herbert, B. S.

1880.

- Atwood, Horace Ward, B. S., 1003 North Main St., Brockton, Mass.
Real Estate Dealer.
- Bartlett, James Monroe, M. S., Orono,
Chemist of the Agricultural Experiment Station of the Uni-
versity of Maine.
- Brown, Albert Hinckley, B. S., Oldtown,
Manager, Oldtown Branch Eastern Trust and Banking Com-
pany; Treasurer and Clerk, Ounegan Woolen Company.
- † Davis, Marcia, B. S., 337 South Fifteenth St., Denver, Colo.,
(Mrs. Joseph D. Stevens.)
- † Elliott, Fred Burton, B. S., Waterville,
Principal, Waterville Business College.
- * Farrington, Sarah Perkins, B. S.,
(Mrs. George P. Merrill.)

- Fernald, Charles Wilbur, B. S., South Levant,
Merchant and Postmaster.
- † Fickett, Fred Wilden, M. S., Galveston, Tex.,
Lawyer, firm Denson and Fickett; General Attorney for G. and
I. S. R. R. and G. B. and S. W. R. R.
- Lufkin, George William, B. C. E., 618 Main St., Coatesville, Pa.,
Consulting Engineer, Worth Bros. Co.
- Mansfield, Frank Albert, M. S., B. D., 182 State St., Hackensack, N. J.,
Clergyman.
- Matthews, Annie Amelia, B. S., Stillwater,
Teacher.
- Murray, Henry Wilson, B. C. E., Napa, Calif.,
Farmer and Teacher.
- † Patten, Franklin Robert, C. E.
- Pease, Charles Trueman, B. S., LL. B., 1716 Marion St., Denver, Colo.,
Senior Member C. T. Pease & Co., Mining Titles, 308 Barclay
Block.
- Purrington, James Frank, B. A., 1043 Washington St., Bath,
Clerk, Railway Mail Service.

1881.

- Andrews, Henry Harris, M. E., Callaway, Neb.,
Cashier, Bank of Callaway.
- Brown, Henry William, M. S., Literary Institution, New Hampton, N. H.,
Vice Principal and Professor Metaphysics and Geology.
- Buck, Clara Louise, B. S., Eureka, Calif.,
(Mrs. Thomas W. Hine.)
- Colburn, Fanny Eliza, B. S., 2404 Capitol Ave., Omaha, Neb.,
(Mrs. Arthur L. Fernald.)
- Farrington, Edward Holyoke, M. S., 315 Mills St., Madison, Wis.,
Professor of Dairy Husbandry, University of Wisconsin.
- Farrington, Oliver Cummings, M. S., Ph. D., Field Columbian Museum,
Chicago, Ill.,
Curator of Geology, Field Columbian Museum, Chicago.
- Fogg, Charles Henry, B. C. E., Greensburg, Pa.,
Civil and Mining Engineer.
- † Ingalls, Aldana Theodore, B. C. E., Winston, Mont.,
Mining.
- * Johnson, Robert John, B. C. E.
- † Libby, Clara Alice, B. S., 241 Water St., Augusta,
Milliner.
- McIntyre, Horace Flanders, M. E., Waldoboro,
Mechanic. Chairman, Board of Selectmen.
- Moor, Charles Lincoln, B. C. E., Hartland,
Bookkeeper, Linn Woolen Co.
- * Murray, Benjamin Franklin, B. C. E.
- † Osburn, Edwin Winthrop, B. C. E., Hotel Metropolitan, St. Paul, Minn.,
Chief Clerk for General Superintendent, Northern Pacific R. R.

- Pease, Oscar Leroy, B. S., Tucson, Ariz.,
Train Dispatcher, S. P. R. R.
- Plaisted, Harold Mason, M. E., 310 Wainwright Bldg., St. Louis, Mo.,
Mechanical Engineer and Patent Lawyer.
- Ring, Alice Isabel, B. S., Orono,
(Mrs. Charles J. Dunn.)
- Ring, Mary Lillian, B. S., Callaway, Neb.,
(Mrs. H. H. Andrews.)
- * Smith, Roscoe Loring, B. S.
- Sturtevant, George Washington, Jr., B. C. E., 1208 Fisher Building,
Chicago, Ill.,
Consulting Engineers, firm of Sturtevant & Todd; also President
Phoenix Construction Co.
- Wade, Frank Swan, B. S., M. D., New Richmond, Wis.,
Physician and Surgeon; Attending Physician to the St. Croix
County Asylum for Insane.
- * White, Walter Adelbert, B. C. E.
- * Wilson, John Barrows, B. S.
- Wyman, Levi Augustus, B. C. E., South Pasadena, Calif.,
Real Estate Lawyer.

1882.

- Bickford, Charles Swan, B. S., Belfast,
Secretary, The Swan and Sibley Co., Jobbers of Grain and
Groceries.
- † Boynton, Jacob Leighton, B. S., Lynn, Mass.
- Browne, Charles Weston Hopkins, B. M. E., Takoma Park, D. C.,
U. S. Patent Office, Washington, D. C.
- Buzzell, Stephen Jennings, B. C. E., Oldtown,
General Engineering Work.
- † Dunton, Oscar Howard, M. E., Cincinnati, Ohio.
- Flint, Walter, M. E., Port Deposit, Md.,
Superintendent of Buildings and Power Station, The Jacob
Tome Institute.
- Fuller, George Ripley, B. S., South West Harbor,
Lawyer.
- Garland, Charles Clinton, B. S., Debsconeag, Maine,
Treasurer Debsconeag Fish and Game Club.
- Gould, Joseph French, B. S., Oldtown,
Lawyer.
- Hine, Thomas Walton, B. S., Eureka, Calif.,
Manufacturer of red wood lumber.
- Howard, Will Russell, B. S., Belfast, Maine,
Principal Belfast High School.
- Hurd, Alonzo L., B. S., M. D., Somers, Conn.,
Physician and Surgeon.
- † Keith, Alfred Justin, B. C. E., Oldtown.
- Kimball, Frank Issacher, C. E., Herminie, Pa.,
Superintendent Ocean Coal Co.

- Patten, James Herbert, B. S., M. D., Amherst, Maine,
Physician and Surgeon.
- Reed, Frederick Martin, B. M. E., New Bedford, Mass.,
Draftsman, Johnson Typesetter Co.
- † Snow, Gleason Cyprian, B. S., North Orrington,
Farmer.
- Starrett, Avery Palmer, B. S., Warren,
Market Gardner; Statistical Correspondent U. S. Department of
Agriculture for Knox County.
- † Todd, Frank Herbert, B. C. E., 1208 Fisher Building, Chicago, Ill.,
Consulting Engineer and Superintendent, firm of Sturtevant &
Todd.
- Webster, Eben Crowell, B. S., Orono,
Treasurer Nekonegan Paper Co. and Treasurer Union Land Co.,
Oldtown.
- Wight, Willard Alberto, B. C. E., Trinidad, Colo. and Atlanta, Colo.,
Stock Raising and Fruit Business.
- Woodward, Daniel Carr, M. E., 93 North Main St., Springfield, Mass.,
Designer with Baush Machine Tool Co.

1883.

- Cain, James Henry, B. S., Orono,
Contractor, Dam Building.
- Cilley, Jonathan Vernet, B. C. E., Dr. Eng'g., Cruz del Eji, Prov. of
Cordoba, Argentina,
General Manager, Ferro-Carril Argentino del Norte.
- Emery, Frank Edwin, M. S., Laramie, Wyoming,
Professor of Agriculture and Horticulture and V. Director,
Wyoming Agricultural Experiment Station.
- Fernald, Arthur Liddell, B. S., 2404 Capitol Ave., Omaha, Neb.,
Agent, The American Thread Co. of New York & Chicago.
- Kelleher, Bartholomew Patrick, B. S., M. D., Orono,
Physician.
- Merrill, Lucius Herbert, B. S., Orono,
Professor of Biological Chemistry, and Chemist in the Agri-
cultural Experiment Station of the University of Maine.
- Michaels, Janie Chase, M. S., Merrymount Road, Quincy, Mass.,
Teacher of German, Quincy High School.
- † Mullen, Charles Ward, B. C. E., Bangor,
Manufacturer.
- † Patten, Truman Miller, B. C. E., Sioux Falls,
Physician.
- † Powers, Harry Wilson, B. S., 45 Armandine St., New Dorchester, Bos-
ton, Mass.,
Real Estate Agent, No. 1 Hancock St., Boston, Mass.
- Putnam, Charles Edgar, B. C. E., Jamaica Plain, Mass.,
Engineer, Park Department, Boston Mass.

- Robinson, Lewis, Jr., B. M. E., M. D., Carmel,
Physician.
Sutton, George Arthur, B. C. E., Orono,
Farmer.
Taylor, Levi William, M. S., Waverly, Iowa,
Marble Worker.

1884.

- Allan, George Herman, B. S., 191 Middle St., Portland,
Lawyer.
* Burleigh, Will Hall, B. C. E.
* Conroy, Mary Frances, B. S.
(Mrs. A. R. Saunders.)
Cutter, Leslie Willard, B. C. E., Bangor,
Contractor and Builder.
Fernald, Harriet Converse, B. S., Spokane, Wash.,
(Mrs. John A. Pierce.)
* Hatch, Elmer Ellsworth, B. S.
Hill, John Edward, B. C. E., Anoka, Minn.,
Civil Engineer.
Kelly, Joseph Grant, B. C. E., C. E., Portland, Oregon,
Superintendent for the Port of Portland Commission.
Ladd, Edwin Fremont, B. S., Agricultural College, Fargo, N. D.,
Professor of Chemistry, North Dakota Agricultural College;
Chemist in Experiment Station; and Editor of the Sanitary
Home.
Lunt, Charles Sumner, B. C. E., Rochester, N. Y.,
Lunt & Robbins, Bankers and Brokers.
Stevens, Fred Leroy, B. S., V. S., 310 Washington St., Somerville, Mass.,
U. S. Government Inspector (Bureau of Animal Industry).
Webber, William, M. E., 889 S. Sawyer Ave., Chicago, Ill.,
Head Draftsman, McCormick Harvesting Machine Co.

1885.

- Chamberlain, George Walter, M. S., Weymouth, Mass. (10 mo.), West
Lebanon, Me. (July and August).
Prin. Hunt School, Weymouth.
Dole, Asher, B. C. E., Fort Dodge, Iowa,
Assistant Engineer, C. G. W. Ry.
Dutton, Orion Jesse, B. S., 42 E. Cottage St., Boston, Mass.,
Philatelist.
Fernald, Henry Torsey, M. S., Ph. D., Amherst, Mass.,
Professor of Entomology, Mass. Agricultural College, and
Associate Entomologist, Hatch Experiment Station.
Goodridge, Elmer Orlando, M. E., 82 Canton St., Lowell, Mass.,
Chief Engineer, Lowell, Lawrence and Haverhill Power Sta-
tions, Mass. Electrical Co.

- Hanscom, George Loring, B. S., 134 Quitman St., Newark, N. J.,
Clergyman, First Congregational Church.
- Hart, James Norris, C. E., M. S., Orono,
Professor of Mathematics and Astronomy, University of Maine.
- Hull, Frank Eugene, C. E., Member of American Society of Civil
Engineers.
Engineer Kennebec Water Power Co.
- Keyes, Austin Herbert, B. C. E., B. Ph., M. A., Ph. D., Less, Mass.,
Superintendent of Schools, Lee, Monterey, Otis, Tyringham.
- † Morey, William, Jr., B. C. E., Kensington, Md.,
Topographer, Adjutant General's Office, War Department, Wash-
ington, D. C.
- Moulton, Joseph Perkins, B. S., Springvale,
Farmer.
- Paine, Leonard Gregory, M. E., 30 Broad St., New York City, N. Y.,
Chief Draftsman International Paper Co.
- † Pennell, Elmer Ellsworth, B. M. W., Saccarappa.
- Riggs, Louis Warner, B. M. E., Ph. D., First Ave. and 28th St., New
York City, N. Y.,
Chemist and Instructor in Chemistry, Cornell University Medical
College.
- Russell, Fremont Lincoln, B. S., V. S., Orono,
Professor of Biology, University of Maine, and Veterinarian of
the Agricultural Experiment Station.

1886.

- Allan, Bert John, B. C. E., Middleboro, Mass.,
Lawyer.
- Ayer, Josiah Murch, C. E., Hotel Hamlet, Somerville, Mass.,
Assistant Engineer, Boston Elevated Railway.
- Barker, George Greenleaf, B. M. E., Care of McCormick Harvesting
Machine Co., Chicago Ill.
Charge Special Machinery.
- Black, George Fuller, C. E., Portland,
Superintendent, Mt. Div., Maine Central Railroad.
- Blagden, John Decker, B. C. E., Weather Bureau, Memphis, Tenn.,
Observer, U. S. Weather Bureau.
- French, Heywood Sanford, C. E., Newtonville, Mass.,
Boston representative, The J. W. Bishop Co., Essex Bldg., 683
Atlantic Ave., Boston, Mass.
- Graves, Edwin Dwight, C. E., 650 Main St., Hartford, Ct.,
Civil Engineer. Chief Engineer for Commissioners Connecti-
cut River Bridge and Highway District.
- Jones, Ralph Kneeland, B. S., Orono,
Librarian, University of Maine.
- Lenfest, Elmer, B. C. E., Snohomish, Wash.,
Civil Engineer and Surveyor. U. S. Deputy Mineral Surveyor.

- † Lockwood, James Frederick, M. E., 71 Broadway, New York, N. Y.,
Chief Draftsman, Otis Elevator Company.
- Lull, George Frederick, M. S., Lockport, N. Y.,
Superintendent Pulp Mill.
- Merriam, Willis Henry, B. C. E., S. 358 Coeur d'Alene Ave., Spokane,
Wash.,
Lawyer, 325 "The Rookery."
- † Merritt, Elmer Ellsworth, M. E., Des Moines, Iowa,
Insurance and Lightning Rod Dealer.
- Page, Arthur Dean, C. E., St. Paul, Minn.,
Bridge Engineer, Great Northern Railway Line.
- Ray, Irving Burton, B. C. E., 167 Cambridge St., Boston, Mass.,
Grocer.
- Twombly, Sidney Smith, B. S., D. V. S., Fullerton, Calif.,
Instructor in Science, Fullerton Union High School. Chemist
for Pacific Creamery Co.

1887.

- Burleigh, John Henry, B. C. E., 93 Main St., Waterville,
Civil Engineer.
- † Cilley, Luis Vernet Prince, B. C. E., 59 Calle Rivadona, San Isidore,
Prov. Buenos Ayres, Argentine Republic, S. A.
- Clark, Bertrand Elmer, M. S., Bar Harbor,
Lawyer.
- Coffin, Edwin Voranus, B. C. E., Harrington,
Clerk.
- Colby, David Wilder, B. S., Skowhegan,
Superintendent of Schools.
- Hicks, Alice Albur, M. S., Portland,
(Mrs. George F. Black.)
- Lazell, James Draper, B. M. E., 1416 So. Pennsylvania Square Building,
Philadelphia, Pa.,
Representing Plunger Elevator Co.
- McNally, Henry Allan, B. C. E., Denver Colo.,
Observer, U. S. Weather Bureau.
- † Mason, Charles Ayers, B. C. E., Little Rock, Ark.,
Engineer, Choctaw & Memphis R. R.; in charge St. Francis and
White River Bridges.
- † Merrill, Fenton, B. C. E., Lawrence, Wash.,
Lumberman.
- Saunders, Addison Roberts, M. E.,
Lawrence, Mass.
- Sears, Cassius Almon, B. C. E., Lyman, Wash.
- Stevens, Charles Hildreth, B. M. E., Fort Fairfield,
Lumber Manufacturer.
- Sturtevant, Charles Fremont, C. E., 2249 Sherman Ave., Evanston, Ill.,
Civil Engineer.

- Trask, Frank Ellsworth, B. C. E., Member American Society Civil Engineers, 405-406 Douglas Building, Los Angeles, Calif.,
Consulting Engineer.
- Vose, Charles Thatcher, B. C. E., 122 Sherman St., Portland,
Assistant Civil Engineer, Maine Central R. R.
- Webb, Howard Scott, M. E., E. E., Orono,
Professor of Electrical Engineering, University of Maine.
- Williams, John Sumner, B. S., LL. B., Guilford,
Lawyer.

1888.

- Andrews, Hiram Bertrand, B. C. E., 101 Milk St., Boston, Mass.,
Civil Engineer, Boston Elevated Railway Co.
- * Batchelder, George Stetson, B. M. E.
- Blanchard, Charles DeWitt, B. C. E., 608 Mutual Reserve Building, New
York City, N. Y.,
Chief Draftsman for Geo. F. Hardy, Consulting and Mill
Engineer.
- Boardman, John Russell, B. S., 167 Tremont St., Boston, Mass.,
Assistant Secretary State Committee Young Men's Christian
Association of Massachusetts and Rhode Island.
- Brick, Francis Stephen, M. S., Uxbridge, Mass.,
Superintendent of Schools for town of Uxbridge and Douglas.
- Butler, Harry, B. S., M. D., Bangor,
Physician.
- Campbell, Dudley, C. E., Newport, R. I.,
Principal, Coddington School.
- Eastman, Fred Langdon, M. E., Weymouth, Mass.,
Electrical Assistant to Inspector of Equipment, Fore River Ship
and Engine Co., Quincy, Mass.
- * Elwell, Edward Henry, B. S.
- Hancock, William Jerome, M. S., Erasmus Hall High School, Brooklyn,
N. Y.,
Teacher of Chemistry, Erasmus Hall High School.
- Hatch, John Wood, M. S., Winterport, Me.,
Pastor of M. E. Church.
- Howes, Claude Lorraine, B. M. E., M. E., 188 Summer St., Boston, Mass.,
Senior member, Howes-Hills Manufacturing Co.
- Lincoln, Harry Foster, B. S., M. E., St. Albans, Vt.,
Superintendent of St. Albans Street Railway Co.
- Lord, Thomas George, M. S., Skowhegan,
Farmer.
- Marsh, Ralph Hemenway, B. S., M. D., Guilford,
Physician.
- * Miller, Seymore Farrington, B. C. E.
- † Philbrook, William, B. C. E., Worcester, Mass.,
With Plunger Elevator Co.
- † Rogers, Seymore Everett, B. M. E., Hanover, New Mexico,
Chief Engineer, The Hanover Mining Co.

- †Seabury, George Edwin, B. M. E., 289 French St., Bangor.
 Small, Frank Llewellyn, B. M. E., King St., South Hampton, Va.,
 Merchant.
 * Smith, Frank Adelbert, C. E.
 Wilson, Nathaniel Estes, M. S., 209 Maple St., Reno, Nevada,
 Chemist to Nevada Expt. Sta., and Professor Agr. Chemistry
 and Dairying, Nevada State University.

1889.

- * Briggs, Fred Percy, B. S.
 Cushman, Charles Granville, B. M. E., 30 Broad St., New York City,
 Engineer, International Paper Company.
 Edgerly, Joseph Willard, B. C. E., Princeton,
 Home Correspondence School.
 Ferguson, Jeremiah Sweetser, M. S., M. D., 330 West 28th St., New
 York, N. Y.,
 Physician; Instructor in Histology, Cornell University Medical
 College.
 Freeman, George Gifford, B. S., Cherryfield,
 Lawyer and Insurance Agent.
 † Gay, George Melville, B. S., Damariscotta,
 Clerk.
 Haggett, Eben Raymond, B. S., 32 Marine Bank Building, Baltimore,
 Md.,
 Secretary and Manager, J. S. Horkins Lumber Co.
 Leavitt, Nellie Louise, B. S., Skowhegan.
 † Reed, John, B. C. E., 3 Depot St., Concord, N. H.,
 Assistant Engineer, B. & M. R. R.
 † Reed, Nellie Waterhouse, B. S., 405 Eastern Ave., Malden, Mass.,
 (Mrs. Edwin R. Jordan.)
 * Stevens, Fred, B. M. E.
 Vickery, Gilbert Scovil, B. C. E., Harrisburg, Pa.,
 Civil Engineer with Pa. Steel Co.
 * White, Mark Elmer, B. C. E.
 Wilson, Mortimer Frank, B. S., Essex St., Bangor,
 Market Gardner.

1890.

- Andrews, Franklin Orris, B. M. E., care of American Machinery Co.,
 Willoughby, Ohio.
 Mechanical Engineer.
 Babb, George Herbert, B. M. E., 79 Concord St., Woodfords,
 Principal of Walker Manual Training School, Portland.
 Bird, John, B. M. E., Rockland,
 Manager, Camden Anchor—Rockland Machine Co.
 * Blackington, Ralph Harvey, B. S.
 Bowden, George Irving, B. C. E., Everett, Mass.,
 Principal of Webster School.

- Clark, Hugo, C. E., Room 9 Columbia Building, Bangor, Me.,
Lawyer. Instructor, University of Maine School of Law.
- * Coffin, Alphonso John, B. S.
- Croxford, Walter Everett, B. M. E., 354 Van Vranken Ave., Schenectady, N. Y.,
Draftsman for General Electric Co.
- † Dow, Fred Todd, B. M. E., 831 Victory Ave., Schenectady, N. Y.,
Assistant Foreman, Drafting Room, General Electric Co.
- Drew, Albert Wilson, B. M. E., 116 28th St., Newport News, Va.,
Draftsman with Newport News Shipbuilding & Dry Dock Co.
Dock Co.
- Dunton, Harris Drummond, B. M. E., Providence, R. I.,
Chief Draftsman, Moseberg & Granville Manufacturing Co.
- Farrington, Horace Parker, B. M. E., Schenectady, N. Y.,
Engineer.
- Gould, George Pendleton, B. S., 68 Jefferson St., Bangor,
Railway Postal Clerk, Bangor and Boston R. P. O.
- Grover, Nathan Clifford, B. S., C. E., Orono,
Professor of Civil Engineering, University of Maine.
- Hardison, Ailen Crosby, B. C. E., 1017 W. 24th St., Los Angeles, Calif.,
Manager and Superintendent of "Gladiator Mine," Crown King,
Ariz.
- Harvey, Chandler Cushman, B. C. E., C. E., Fort Fairfield,
Chairman of Selectmen, and Superintendent of Schools.
- Hayes, Samuel Henry Tewksbury, M. S., 421 N. Charles St., Baltimore,
Md.,
Manager, The Walker-Gordon Laboratory. (Modified Milk.)
- Heath, Everett Fenno, B. M. E., 222 48th St., Newport News, Va.,
Hull Draftsman, Newport News Shipbuilding and Dry Dock Co.
- Kelley, Edward Havener, B. S., Bangor House, Bangor,
Managing Editor, Bangor Daily Commercial.
- * Keyes, George Edwin, B. M. E.
- Leavitt, Hannah Ellis, B. S., Port Deposit, Md.,
(Mrs. Walter Flint.)
- Morey, Elmer Lake, B. C. E., Columbo, Ceylon.
Vice and Deputy Consul at Ceylon for the United States.
- Morrill, Edmund Needham, B. S., Warren, N. H.,
Chemist, Warren Separator Co.
- Owen, John Wesley, B. C. E., 101 Milk St., Boston, Mass.,
Civil Engineer, Boston Elevated Railway.
- Pierce, Varna John, B. M. E., 6540 Drexel Ave., Chicago, Ill.,
With Goodman Manufacturing Co.
- Pierce, William Bridgham, B. M. E., 49 Hammond St., Bangor.
Lawyer.
- Pierce, William Barron, B. M. E., 58 Bancroft Park, Hopedale, Mass.,
Draughtsman, Draper Co.
- Pillsbury, George Melville, B. S., Rumford Falls,
Chemist of Oxford Paper Co.

- Quincy, Frederick Grant, B. M. E., 499 State St., Bangor,
Surveyor of Land and Lumber.
- Rackliffe, Joseph Riley, B. C. E., 619 Edmond St., St. Joseph, Mo.,
Rackliffe & Gibson, Engineers and Contractors, Public Works.
- † Reed, Fullerton Paul, B. C. E., Ash Forks, Arizona,
Wool Grower.
- Sawyer, Frank Wade, B. S., M. D., 230 State St., Bangor,
Physician and Surgeon.
- Swan, Clarence Buzzell, B. M. E., Oldtown,
Member of firm, Star Printing Co., and Treas. and Mgr. Damon
Perforator Co.
- Wallace, Chester Jay, B. C. E., 1 Ashburton Place, Boston, Mass.,
Assistant Engineer, Metropolitan Water Board.
- Webb, Winfield Scott, C. E., Caribou,
Superintendent of Schools.
- Wight, Ralph Holbrook, C. E., Marshalltown, Iowa,
Division Engineer, I. C. Ry.
- Williams, Charles Sampson, M. S., 420 Ditmars Ave., Long Island City,
N. Y.,
Chemist, Oakes Manufacturing Co.

1891.

- Arey, Ralph Jesse, C. E., Williams, Arizona,
Assistant Engineer, Santa Fe Pacific R. R.
- Bailey, William Melvin, B. C. E., 15 Mt. Vernon St., Malden, Mass.,
Engineer, Eastern Expanded Metal Co., Boston, Mass.
- Clark, Edmund, B. S., M. S., 426 Sanford Ave., Flushing, L. I., N. Y.,
Assistant Chemist, Department of Health, New York City.
- Clayton, Charles, B. S., Taopi, Minn.,
Manager of Farm.
- Farrington, Wallace Rider, B. S., Honolulu, Hawaiian Islands,
Editor Evening Bulletin; President Bulletin Publishing Co.
- Farrington, William Rowe, B. C. E., 75 S. Main St., Middleboro, Mass.,
Division Engineer, Massachusetts Highway Commission.
- Flanagan, John Henry, B. M. E., Rockland,
Mailing Clerk, Rockland P. O.
- †Graves, Joseph Colburn, M. E., 71 Broadway, New York, N. Y.,
Assistant Engineer, Otis Elevator Company.
- Hall, Herbert Austin, C. E., Kennebunk,
Treasurer and Engineer, Kennebunk Electric Light and Power
Co.
- Hamlin, Cyrus, B. S., M. D., 150 Putnam Ave., Brooklyn, N. Y.,
Physician.
- Keyes, Prescott, Jr., C. E., M. A., Bangor, Me.,
Principal, Grammar School.
- Kilbourne, Charles Herbert, B. S., 2254 7th Ave., New York, N. Y.,
Milk Inspector, Dept. of Health, 55th St. and 6th Ave., N. Y.
City.

- Lord, Robert William, B. M. E., Skowhegan,
Draftsman.
- † Menges, Hugo Gustave, B. M. E., 22 Monument Square, Charleston,
Mass.,
Assistant Engineer, Metropolitan Water Board.
- † Merrill, True Lander, B. M. E., Lawrence, Wash.,
Lumberman.
- Moulton, Fred Charles, M. S., Wallstreet, Colo.,
Mining, Assaying.
- Patten, William Nickels, B. C. E., C. E., 93 Federal St., Boston, Mass.,
Civil and Electrical Engineer with Stone and Webster.
- Starrett, Henry Vaill, B. S., Warren,
Market Gardener, and Travelling Salesman for Maine Register.
- Steward, John White, B. M. E., Skowhegan,
Miller.
- Taylor, Charles Norton, C. E., 1 Waban St., Wellesley, Mass.,
- Thompson, George Edward, B. C. E., Orono,
Lawyer.
- Valentine, William Alton, M. E., 1933 Parrish St., Philadelphia, Pa.,
Draftsman, E. H. Godshalk Co., 23rd & Hamilton Sts., Phila-
delphia.

1892.

- * Atherton, George Frederick, B. M. E.
- Atkinson, William Hacker, B. C. E., Malden, Mass.,
Superintendent of construction.
- Bristol, Mortimer Lucius, B. M. E., West Hartford, Ct.,
Draftsman, Colt's Patent Fire Arms Manufacturing Co.
- Butterfield, William Rowe, B. C. E., 17 Wyoming Ave., Melrose, Mass.,
Assistant Roadmaster, Elevated Division, Boston Elevated Ry.
Co., Terminal Station, Charlestown, Mass.
- Clark, Roscoe Conkling, B. M. E., 6 Vernon St., Saco, Maine,
Draftsman, Saco and Pettee Machine Co.
- Danforth, Ernest Wilbur, B. C. E., 468 Medford St., Somerville, Mass.,
Assistant City Engineer, in Charge of Sewers.
- Doolittle, Herbert Edward, B. C. E., East Northfield, Mass.,
Dealer in Lumber.
- Farrington, Mellin Edward, B. M. E., 65 Holyoke St., Brewer, Maine,
Mechanical Engineer and Millwright.
- Fernald, Robert Heywood, B. M. E., M. E., M. A., Columbia University
Mechanical Engineering Dept., New York City,
Graduate Student.
- Gibbs, John Clinton, B. M. E., 144 Munroe St., Lynn, Mass.,
Florist.
- Grover, Arthur Curtis, B. C. E., 53 Kendall Ave., Rutland, Vt.,
City Engineer and Superintendent of Streets and Water Works.
- Healey, Warren Evans, B. M. E., Rockland,
Salesman, Rockland-Rockport Lime Co.

- Holden, William Cross, M. E., High School, Lynn, Mass.,
Director of Manual Training and Instructor in Mathematics.
- † Maguire, George, C. E., 46 Chestnut St., Waltham, Mass.,
Assistant Engineer, Hobbs Brook Basin, Cambridge Water
Works.
- Randlette, Charles Maurice, B. S., M. D., Monmouth,
Physician.
- † Timberlake, Stanley Milton, C. E., 31 Milk St., Boston, Mass.,
Surveyor and Draftsman, Mutual Association Fire Insurance.
- Tolman, Frank Stevens, B. C. E., 779 Steinway Ave., Long Island City,
N. Y.,
Superintendent, Oakes Manufacturing Co.
- Tyler, Joseph Albert, B. C. E., 26 Lexington St., E. Boston, Mass.,
Engineer and Assistant Superintendent, East Boston Gas Co.

1893.

- Buck, Hosea Ballou, C. E., Room 1 Columbia Building, Bangor,
With Messrs. Coe & Pingree, Timberlands.
- Crosby, Walter Wilson, B. C. E., C. E., Towson, Md.,
Engineer, Baltimore County Roads.
- French, Charles Frederick, B. M. E., 7 Fayette St., Beverly, Mass.,
With Consolidated and McKay Machine Co.
- Gannett, Charles Henry, B. C. E., 7 Academy St., Arlington, Mass.,
Civil Engineer, Office 1102 Exchange Building, Boston, Mass.
- Gould, Harris Perley, M. S., Department of Agriculture, Washington,
D. C.,
Assistant Pomologist, Bureau of Plant Industry, U. S. Depart-
ment of Agriculture.
- † Hutchinson, George Weymouth, B. C. E., Greensburg, Pa.,
Civil Engineer.
- Jack, Walter Dows, B. S., Box 42, Carteret, N. J.,
Supt., International Phosphate Co.
- Jordan, Alva Thomas, B. S., New Brunswick, N. J.,
Assistant in Horticulture, New Jersey State Experiment Station.
- Kittridge, Charles Partridge, B. S., Turner,
Pastor, Baptist Church.
- Lewis, Hugh McLellan, B. C. E., South Berwick,
Civil Engineer.
- Murphy, Charles Clark, B. C. E., Clinton, Mass.,
Engineering Inspector, Metropolitan Water Board.
- Rowe, George Freeman, B. M. E., Bangor,
Mechanical Engineer with N. M. Jones, Lincoln, Me.
- Shaw, Orrin John, B. C. E., D. D. S., Ludlow, Vt.,
Dentist.
- Smith, Harry Maubec, B. M. E., 23 Second St., Bangor,
Special Agent, Mutual Life Insurance Co., New York.
- Webster, John Milton, B. S., 3364 F. St., San Diego, Calif.

- Whitney, George Ansel, B. M. E., 235 Main St., Lewiston,
Hardware Merchant.
- Williams, Hiram, B. S., M. D., 154 Monroe St., Passaic, N. J.,
Physician.

1894.

- Bowler, Frank Colburn, B. M. E., 148 Ohio St., Bangor,
Draftsman with H. S. Ferguson, Chief Engineer Great Northern
Paper Co., Millinocket.
- Cowan, Edward Henry, B. C. E., Marion, Ohio,
Supt., Marion City Water Company.
- Cowan, George Parker, B. C. E., Boston, Mass.,
Contractor's Engineer, O'Brien, Sheehan, Perkins & McHale.
- * Durham, Leroy Tolford, B. C. E.
- Gilbert, Charles Edward, B. M. E., Orono.
- Gould, Frank Gilman, B. C. E., Sault Ste. Marie, Ontario, Canada,
Assistant Engineer, The Lake Superior Power Co.
- Gray, Jesse Alexander, B. S., Oldtown,
Traveling Salesman, United States and England, Bickmore Gall
Cure Co.
- Hall, George Henry, M. E., 188 Bridgman St., Providence, R. I.,
Mechanical Engineer, American Ship Windlass Co.
- Harvey, James Elmore, B. M. E., Readfield,
Member of firm of Wm. Harvey & Sons, Manufacturers of Edge
Tools and Woolen Goods.
- † Hayes, Augustus Daniel, B. C. E., 185 High St., Belfast,
City Engineer, Belfast.
- Jose, Wallace Hight, B. S., 649 Tremont Building, Boston, Mass.,
Lawyer.
- * Kimball, James Mayberry, B. C. E.
- † Murray, Herbert, B. S., Golden Crown Mine, Bolinas, Calif.,
Mining Foreman.
- Norwood, Leon Orlando, B. C. E., East Berlin, Conn.,
Civil Engineer, American Bridge Co.
- Rumball, George Washington, Jr., B. M. E., Beverly, Mass.,
Foreman, Consolidated & McKay Lasting Machine Co.
- Wood, Edward Butler, B. M. E., 93 Federal St., Boston, Mass.,
Supt. of Construction with Lockwood, Green & Co., Mill Archi-
tects and Engineers.

1895.

- Atwood, Gustavus Gilbert, B. C. E., 84 Myrtle St., Boston, Mass.,
Bookkeeper for Holbrook Cabot Building Contractors, Boston,
Mass.
- Boardman, Harold Sherburne, C. E., 532 Hammond St., Bangor,
Instructor in Civil Engineering, University of Maine.
- Buck, Alfred Howard, B. M. E., 2108 Valentine Ave., New York City,
N. Y.,
Testing, with New York Telephone Co.

- Calderwood, Isaac Glidden, B. C. E., Room 131 State House, Boston, Mass.,
Civil Engineer on dock construction, Massachusetts Harbor and Land Commission.
- Chase, Wendell W., B. C. E., 39 Rosseter St., Dorchester, Mass.,
Chief Geographer, National Publishing Co., 144 Essex St., Boston, Mass.
- Damon, Frank Hardy, B. S., P. O. Box 733, Bangor,
In charge of Department of Physics and Chemistry, Bangor High School.
- Ellis, Merton Eugene, B. M. E., 145 Lothrop St., Beverly, Mass.,
Foreman, United Shoe Machinery Co.
- Folsom, Leroy Rowell, B. S., South Norridgewock,
Lawyer, Superintendent of Schools.
- Frost, Charles Albert, B. C. E., 52 Winthrop St., Everett, Mass.,
Civil Engineer, Metropolitan Water Board.
- Grover, Oscar Llewellyn, B. M. E., B. C. E., 802 North 6th St., Harrisburg, Penn.,
Draughtsman with the Pennsylvania Steel Co., Bridge and Construction Dept.
- de Haseth, Gerard Andries, B. C. E., Seattle, Wash.,
Assistant Engineer, Seattle Electric Co.
- Knight, Ora Willis, M. S., 84 Forest Ave., Bangor,
Assistant chemist to the Agricultural Experiment Station of the University of Maine, also manufacturing and consulting chemist.
- Martin, James William, B. C. E., 525 Van Buren St., Pueblo, Col.,
Engineer with the Col. Fuel and Iron Co.
- Merrill, Earl Clinton, B. C. E., 214 9th Ave., Seattle, Wash.,
Engineer with Seattle Tacoma Interurban Ry.
- Moulton, Albion, B. M. E., 3435 N. 3rd St., Philadelphia, Pa.,
Superintendent, North Penn. Iron Co.
- Murphy, Walter Marshall, B. C. E., Wiscasset,
Assistant to Chief Engineer of Wiscasset, Waterville and Farmington Ry.
- Pattee, Clifford James, B. C. E., Belfast,
Insurance Agent, firm James Pattee & Son.
- Robinson, Halbert Gardner, B. C. E., Patten.
- Rollins, Melville Frederick, B. C. E., 71 Third St., Bangor,
Assistant Engineer, C. M. & St. P. Ry., Muscatine, Iowa.
- Thomas, Charles Dura, B. C. E., 73 Cohasset St., Roslindale, Mass.,
Civil Engineer, Employed by the United States Government at Boston Navy Yard.

1896.

- Farrell, Harry Clifford, B. M. E., Manchester, N. H.,
Manchester Traction, Light and Power Co.
- * Fernald, Roy Lynde, B. C. E.

- † Gibbs, Edward Everett, B. C. E., 11 East Franklin St., Baltimore, Md.,
With Gibbs Preserving Co., Baltimore, Md.
- Glidden, Everett Gray, B. M. E., 63 St. Botolph St., Boston, Mass.,
Mechanical Engineer, Office 909 Winthrop Bldg., Boston, Mass.,
General Agent, New York Life Insurance Co.
- Hobbs, Frederick Andrews, B. S., South Berwick,
Lawyer.
- Jeffery, George Wesley, B. C. E., 57 Cottage St., Everett, Mass.,
Civil Engineer with Sheaff & Juastad, 85 Water St., Boston,
Mass. Engineer in charge of Construction.
- Kidder, Elmer Elwood, B. C. E., 10 Beach St., Woburn, Mass.,
Civil Engineer, Department of N. Y., N. H. & H. R. R., Boston,
Mass.
- Libby, Frank Joshua, B. M. E., 7 Fayette St., Beverly, Mass.,
Machinist, Consolidated & McKay Lasting Machine Co.
- Manter, Ralph Barton, B. C. E., Iba, Province of Zambales, P. I.,
Provincial Supervisor.
- Marston, Frand Leonard, B. C. E., Associate Member American Society
of Civil Engineers, 49 Hammond St., Suite 13, Bangor, Me.,
Civil Engineer.
- Martin, Hermann Stephen, B. C. E., Box 258, Pacatetto, Idaho,
Assistant Engineer, Oregon Short Line Railroad.
- † Niles, Herbert Lester, B. C. E., 191 Broadway, East Somerville, Mass.,
Civil Engineer, Metropolitan Water Board.
- Page, Warren Robbins, B. C. E., Newburgh Village,
Farmer.
- Palmer, Perley Burnham, B. C. E., 30 Broad St., New York City, N. Y.,
Civil Engineer, International Paper Co.
- Pride, Frank Perley, B. S., Westbrook,
Lawyer.
- Randlette, Joseph William, B. M. E., 29 Quincy St., Somerville, Mass.,
Assistant Foreman, Equipment Department, New England Tele-
graph and Telephone Co., Boston, Mass.
- Rogers, Lore Alford, B. S., 25 Elmwood Ave., Geneva, N. Y.,
Assistant in Bacteriology, N. Y. Agr. Experiment Station.
- Sargent, Paul Dudley, B. C. E., Calais,
Engineer, M. of W., Washington County R. R.
- Simpson, Erastus Roland, B. M. E., 176 Federal St., Boston, Mass.,
Engineer for the Chapman Double Ball Shafting Bearing Co.
- Starr, John Alvah, B. C. E., 54 Irving St., Watertown, Mass.,
Assistant Engineer, Metropolitan Park Commission.
- Steward, Stanley John, B. M. E., Orono,
Foreman of Shop, University of Maine.
- Tolman, Gilbert, B. M. E., M. A., 3140 Broadway, New York City, N. Y.,
Teacher, Assistant in Department of Physics, Columbia Uni-
versity.
- Walker, Perley, M. E., M. M. E., 220 48th St., Newport News, Va.,
Calculator in Scientific Dept. of the Newport News Ship Building
and Dry Dock Co.

- Weston, Charles Partridge, C. E., 314 West 113th St., New York City, N. Y.,
Graduate Student at Columbia University.
- Weymouth, Frank Elwin, C. E., Assoc. M. Am. Soc. Civil Engineers.
Care of Guoyoquil & Quito R. R., Guoyoquil, Ecuador, S. A.,
Resident Engineer, G. & Q. R. R.
- Whitcomb, Beecher Davis, B. M. E., 18 Adelaide Ave., Providence, R. I.,
Foreman of Signal Wires for Union Traction and Electric Co.
- Wilkins, Gardiner Benson, B. M. E., 439 Albany St., Boston, Mass.,
With Boston Elevated Railway Co., Department of Wires and
Conduits.

1897.

- † Atwood, Edward Moseley, B. S., 462 Cleveland Ave., Chicago, Ill.,
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- Brastow, William Thomas, B. C. E., 242 46th St., Pittsburg, Pa.,
Draftsman with the American Bridge Co.
- Brown, William Bourne, B. S., Livermore Falls,
Farmer.
- Bryer, Charles Sidney, B. C. E., 1236 Morton St., Dorchester, Mass.,
Draftsman in street department, city of Boston.
- Bunker, Stephen Sans, B. C. E., Youngstown, Ohio,
Assistant Engineer with Wm. Glyde Wilkins, Westinghouse
Bldg., Pittsburg, Pa.
- Chase, John Parks, B. M. E., Quincy, Mass.,
Hull Draftsman, Fall River Ship & Engine Co.
- Clary, Justin Robert, B. C. E., Worcester, Mass.,
Draftsman with Norcross Brothers Company.
- Cosmey, Stanwood Hill, B. C. E., 3517 Howard St., Omaha, Neb.,
Division Engineer's Office, U. P. R. R., Omaha, Neb. Assis-
tant Engineer and Draftsman, Nebraska Division U. P. R. R.
- Duncan, Lindsay, B. S., 217 Brandywine Ave., Schenectady, N. Y.,
Civil Engineer for the American Locomotive Co.
- † Farnham, Charles Henry, B. C. E., Isthmian Canal Commission, San
Juan Del Norte, Nicaragua, C. A.,
Assistant Engineer, Isthmian Canal Commission.
- Goodridge, Perley Francis, B. M. E., 177 Chestnut St., Holyoke, Mass.,
Draftsman, Deane Steam Pump Co., Holyoke, Mass.
- Gould, Vernon Kimball, B. M. E., 106 First St., Bangor,
Assistant Superintendent, Bangor Gas Light Co.
- Gorham, Frank Edward, B. M. E., Round Pond,
Teacher in public school.
- Grover, Oscar Llewellyn, B. M. E., B. C. E., 802 North 6th St., Harris-
burg, Penn.,
Draftsman with the Pennsylvania Steel Co., Bridge and Con-
struction Dept.
- Heath, Stanley Jacob, 27 Davis St., Bangor,
Accountant for the M. C. R. R. Co.

- Holyoke, William Lawrence, B. M. E., 143 North St., Bath,
Foreman, Sagadahoc Light and Power Co.
- Macloon, Ernest Henry, B. M. E., Copperfield, Vt.,
Chief Electrician, Copperfield Mines.
- Patten, Andrew Jarvis, B. S., Geneva, N. Y.,
Assistant Chemist, New York Agr. Experiment Station.
- Porter, Byron Frank, B. S., M. D., St. Joseph Hospital, Lancaster, Pa.,
Resident Physician.
- Porter, Joseph White Humphrey, B. S., M. D., 3605 Locust St., Phila-
delphia, Pa.,
Assistant Surgeon, Eye and Ear Dispensaries, University of
Pennsylvania Hospital.
- Rogers, Allen, M. S., 3605 Locust St., Philadelphia, Pa.,
Harrison Fellowship in Chemistry at the University of Penn-
sylvania.
- Russell, Myron Roswell, B. S., Bar Harbor,
Postal Clerk.
- Stevens, Howard Eveleth, B. C. E., 1742 Monadnock Block, Chicago, Ill.,
Draftsman for Ralph Modjeski, C. E.
- Upton, Edwin Carlton, B. S., 314 W. 113th St., New York City, N. Y.,
Graduate Student in Columbia University.
- Urann, Marcus Libby, B. S., North Easton, Mass.,
Lawyer, Boston, Mass.

1898.

- † Bailey, Fred Wesley, B. S., Belfast.
- Barron, Wilson Darling, B. M. E., 19 Humphreys Sq., Dorchester, Mass.,
Student, Tufts Dental College.
- Brann, Lewis Jefferson, B. S., Lewiston,
Lawyer.
- Crowell, Charles Parker, B. M. E., Bangor,
Thomas & Crowell, Architects and Engineers.
- Davis, Edward Harmon, B. M. E., Walworth Manufacturing Co., Bos-
ton, Mass.,
Steam fitting.
- Dearborn, John Washington, B. M. E., New Haven, Ct.,
With Winchester Repeating Rifle Co.
- Dillingham, Samuel Clark, B. C. E., Watertown, N. Y.,
Assistant Engineer, International Paper Co.
- Dolley, Walter, B. S., 212 Summer St., Boston, Mass.,
Employed in the Estes Publishing Co.
- Dow, Leroy Eugene, B. M. E., Room 10, 11 Exchange St., Portland,
Assistant with C. W. Fenn, Civil and Hydraulic Engineer, and
Mill Architect.
- Dunn, Rena Ethel, B. S., Rumford Center,
Principal of Grammar School.
- Dunn, Russell Olin, B. C. E., Bryant Pond,
Teacher.

- † Edwards, Llewellyn Nathaniel, B. C. E., 327 Potts Pl., Johnstown, Pa.,
Draftsman, Cambria Steel Co.
- Ellis, Walter Lincoln, B. M. E., 204 Washington St., Bath,
Draftsman, Bath Iron Works.
- Farrar, Lottie Gertrude, B. S., Foxcroft.
- Fernandez, Gracia Lillian, B. S., Concho, Arizona,
Principal of Grammar School.
- Frost, George Sherman, B. C. E., 318 E. 24th St., New York City, N. Y.,
Assistant Engineer, Rapid Transit R. R. Commissioners, Second
Division.
- Gibbs, Bernard, Ph. B., LL. B., Madison,
Lawyer.
- Hamlin, Ralph, B. C. E., 214 Pine St., Harrisburg, Pa.,
Draftsman, Frog and Switch Department, Pennsylvania Steel Co.
- Higgins, Harry Alston, B. M. E., Ansonia, Ct.,
Draftsman, with Coe Brass Co.
- Johnson, Bertrand Randall, B. S., 701 Colonial Bldg., Boston, Mass.,
Representative, International Correspondence Schools, Scranton,
Pa.
- Lawrence, George Warren, B. M. E., 306 Lafayette St., Schenectady,
N. Y.,
Testing Department, General Electric Co.
- Libby, Albion Dana Topliff, E. E., 353 S. Leavitt St., Chicago, Ill.,
Engineer in charge of power equipment for Kellogg Switchboard
& Supply Co.
- Libby, Herbert Ivory, B. M. E., Biddeford.
- Lincoln, Harry Matthew, B. C. E., 98 Exchange St., Bangor,
Civil Engineer with Bangor Gas Light Co.
- Manson, Ray Herbert, B. M. E., E. E., 237 S. Leavitt St., Chicago, Ill.,
Foreman, Experimental Laboratory, Kellogg Switchboard & Sup-
ply Co.
- Merrill, Dana True, B. S., Co. A, 12th U. S. I., Manila, Philippine Islands,
1st Lieutenant, Co. A, 12th U. S. Infantry.
- Merrill, Elmer Drew, B. S., Manila, Philippine Islands,
Botanist to the Insular Bureau of Agriculture, under the War
Department.
- Merrill, Harrison Pratt, B. M. E., 20 Elm St., Everett, Mass.,
Electrician, U. S. Navy Yard, Charleston, Mass.
- Pearce, Charles Abram, B. S., Lyndhurst Hotel, Shamokin, Pa.,
Local representative of the Hoover Mercantile Co., New York.
- Ryther, Leon Edwin, B. S., Orleans, Mass.,
Principal of Orleans High School.
- Sawtelle, Fred William, B. C. E., Waterville,
Assistant Roadmaster, M. C. R. R.
- † Small, Albert Clifford, B. M. E., 41 Mall St., West Lynn, Mass.,
In the employ of General Electric Co.
- Smith, George Albert, B. M. E., 256 Cabot St., Beverly, Mass.,
Inspector, Screw Machine Planer and Punch Depts., U. S.
Machine Co.

- Sprague, Alden Percy, B. M. E., 1319 5th Ave., S., Minneapolis, Minn.,
Salesman with Twin City Iron Works, 317 11th Ave., S.
- Starbird, Alfred Andrews, B. S., Fort Munroe, Va.,
1st Lieutenant, Artillery Corps.
- Stevens, Ray Parker, B. M. E., 1713 Hewitt Ave., Everett, Wash.,
General Superintendent, Everett Railway & Electric Co.
- Sturgis, Edwin Albert, B. M. E., 8 Lyman St., Lynn, Mass.,
Electrical Engineer, B. & N. St. Ry. Co.
- Tarr, Roderick Desmond, B. M. E., 10 Oak St., Biddeford,
Foreman, Saco & Pettee Machine Shops.
- Tolman, Wilfred Reuben, B. C. E., 17 Warren St., Everett, Mass.,
Structural Draftsman.
- Webster, Charles Staples, B. S., 17 Exchange St., Portland,
Insurance. Firm of Norton, Hall & Webster.
- † Welch, Warner Edwin, B. M. E., Windber, Pa.,
Assistant Mechanical Engineer, Berwind-White Coal Mining Co.
- White, Horace Loring, B. S., Medical Dept., University of Vermont,
Burlington, Vt.,
Professor of Chemistry.
- Whittemore, George Arthur, B. M. E., 49 Union St., Worcester, Mass.,
Draftsman with George L. Brownell, Spinning and Twisting
Machinery.
- Wiswell, Carl Gardner, B. M. E., East Machias,
Dealer in Hardware and Plumber.

1899.

- Bassett, Eben Pierce, B. M. E., 136 Liberty St., New York City, N. Y.,
Electrical Engineer, The Cutler-Hammer Mfg. Co.
- Batchelder, Frank Lothrop, B. C. E., 227 44th St., Pittsburg, Pa.,
Civil Engineer, American Bridge Co., Keystone Branch.
- Belcher, Wallace Edward, B. C. E., East Berlin, Conn.,
Civil Engineer, American Bridge Co., Berlin Branch.
- Blackwell, Charles Elbert, B. M. E., 31 Washington St., Winchester,
Mass.,
With McKay, Dept. of United Shoe Machinery Co.
- * Boynton, Alson Edwin, B. C. E.
- Brown, John Wilson, B. M. E., 817 Holland Ave., Wilksburg, Pa.,
Draftsman, Westinghouse Electric and Manufacturing Co., Pitts-
burg, Pa.
- Carlton, Rufus Houdlette, B. M. E., 115 Nott Terrace, Schenectady, N. Y.,
Assistant Engineer, Supply Department, General Electric Co.
- Caswell, Winfield Benson, B. M. E., Philadelphia, Pa.,
Draftsman, Neafe & Levy, Ship and Engine Building Co., Phil-
adelphia, Pa.
- Clark, Harold Hayward, B. M. E., 28 Atlantic Terrace, Lynn, Mass.,
Electrical Engineer, General Electric Co.
- Cleaves, Daniel Lunt, B. S., Amherst, Mass.,
Instructor of Chemistry, Massachusetts Agricultural College.

- Collins, George, B. C. E., 5117 Carnegie St., Pittsburg, Pa.,
Draftsman, Keystone Branch, American Bridge Co.
- Crockett, Cyrenius Walter, B. S., 191 Washington Ave., Newark, N. J.,
Chemist, Mass & Waldstein.
- Downing, Marshall Buckland, 346 Madison Ave., Flushing, N. Y.,
Telephone work, with New York Telephone Co.
- Drew, Irving Harry, B. M. E., Cincinnati, Ohio,
With Thomas Emery's Sons, Real Estate. Clerk.
- Fernald, Reginald Lovejoy, B. S., 70 Fifth Ave., New York, N. Y.,
With Ginn & Co., Publishers.
- Flint, Bert Whitaker, B. C. E., Apponaug, R. I.,
Superintendent of Construction, Lockwood, Green & Co.
- Ford, Leonard Harris, B. S., East Eddington,
Principal of High School.
- Grover, Archer Lewis, B. M. E., Orono,
Physical Director, University of Maine.
- † Haney, William Wallace, B. M. E., 412 W. 23rd St., New York, N. Y.,
Installing Dept., American Telephone & Telegraph Co.
- Hayes, Clarence Morrill, B. M. E., Abington, Mass.,
Mechanical Draftsman, General Electric Co., Lynn, Mass.
- Hersey, George Woodman, B. M. E., 826 Holland St., Wilkensburg, Pa.,
- Heyer, Harry Sanford, B. M. E., Friendship,
Teacher.
- Hilton, George Libby, B. S., 47 Main St., Bangor,
Medical Student, College of Physicians & Surgeons, Baltimore.
- Hoxie, Hall Farrington, B. M. E., 120 Broadway, New York City, N. Y.,
Board of Patent Control.
- Mansfield, Edward Raymond, B. S., Orono,
Assistant Chemist, Agricultural Experiment Station of the Uni-
versity of Maine.
- Mayo, Herbert Palmer, B. M. E., 309 Lafayette St., Schenectady, N. Y.,
Draftsman, General Electric Co., Schenectady, N. Y.
- Morell, William Bradley, B. M. E., 346 Madison Ave., Flushing, N. Y.,
Telephone work, Central Office, Manager.
- Morrill, Walter Jean, B. S., Claflin University, Orangeburg, S. C.,
Professor of Science, Claflin University.
- Mosher, Edwin St. Elmo, B. M. E., 631 Weston Ave., Lynn, Mass.,
With the General Electric Co.
- Murray, William Augustine, B. C. E., 145 Harvard St., Rochester, N. Y.,
Bridge Inspector for N. Y., N. H., & H. R. R.
- Nelson, William, B. M. E., 12 Liberty St., Bath,
Draftsman, Bath Iron Works.
- Oswald, Herman Henry, B. M. E., 306 Lafayette St., Schenectady, N. Y.,
Drafting Department, General Electric Co.
- Palmer, Edward Everett, B. M. E., 1016 Lexington Ave., Altoona, Penn-
sylvania,
Electrical Engineer, Pennsylvania Railroad.
- Powell, Maurice Henry, B. S., Orono,
Agriculturist.

- Powell, Mildred Louise, B. S., Orono,
Teacher.
- Pretto, Henry Joseph, B. M. E., 35 Rutland Sq., Boston, Mass.,
Draftsman, American Tool and Machine Co.
- Sidensparker, Stanley, B. M. E., B. S., Warren.
- Small, Clinton Leander, B. S., A. B., 861 Albert St., Long Island City,
N. Y.,
Chemist, Oakes Manufacturing Co.
- Smith, Edwin Melcher, B. M. E., 932 Elmwood St., Buffalo, N. Y.,
Draftsman, Taylor Signal Co., Buffalo.
- Stephens, Allen Whitmore, B. C. E., 135 Rochell Ave., Station I., Phila-
delphia, Pa.,
Draftsman, American Bridge Co.
- † Stinson, Frank Minott, B. M. E., Bath.
- Stover, Oliver Otis, M. S., Freeport.
- Swain, John Henry, B. S., 388 Wabash Ave., Chicago, Ill.,
Salesman for Powers, Higby & Co.
- Swain, Pearl Clayton, B. A., Corinna,
Teacher, Corinna Union Academy.
- Veazie, Marcellus Maurice, B. S., 147 Milk St., Boston, Mass.,
Employed in the office of F. G. Macomber, Insurance.
- Wescott, Arthur Clement, B. M. E., 474 Portland St., Portland,
Assistant Superintendent, Prudential Insurance Co., 7 Exchange
St., Portland.
- † Whittier, Charles Comfort, B. C. E.

1900.

- † Beedle, Harry Woodward, B. M. E., South Gardiner.
- Bird, Alan Laurence, B. M. E., Houlton, Me.,
Law Student.
- Bowerman, Frank Harvey, B. C. E., New Castle, N. H.,
In United States Engineer Office.
- † Burgess, William Joseph, B. M. E., Box 461, Windber, Pa.,
Charge of Mining Machines, of Scalp Level District, B. W. C.
M. Co.
- Burnham, Agnes Rowena, B. Ph.,
Teacher, Oldtown High School.
- Cargill, Walter Neal, B. M. E., 65 Shepard St., Lynn, Mass.,
Second Assistant Electrical Engineer, Boston & Northern St.
R'y Co.
- Caswell, Wilfred Harold, B. M. E., Care of Portland Company, Portland,
Draughtsman.
- Clark, Wilkie Collins, B. S., Skowhegan,
Lumbering.
- Closson, James Edward, B. S., 438 Pine St., Fall River, Mass.,
Chemist in Hat Factory.

- Cole, Clinton Llewellyn, B. C. E., Orono,
Tutor in Drawing, University of Maine.
- Davis, Harry Ashton, B. M. E.,
Draftsman, with The Draper Company.
- Drummond, Henry Frank, B. M. E., 115 Nott Terrace, Schenectady,
N. Y.,
Testing Dept., General Electric Co.
- † Dunn, Julian Sturdevant, B. M. E., Cumberland.
- † Eaton, Herbert Davidson, B. S., Bangor.
- Goodwin, Philip Ross, B. C. E., 222 44th St., Pittsburg, Pa.,
Draftsman.
- Gray, Charles Perley, B. S., Oldtown,
Student, Harvard Medical School.
- † Hamlin, George Otis, B. M. E., Orono.
- Hart, Malcom Cole, B. C. E., 106 South Second Avenue, Marshalltown,
Iowa,
Draftsman with the Iowa Central R. R.
- † Hatch, Howard Andrew, B. C. E., Lindenville, Ohio.
- Hayes, James Arthur, M. S., 6608 Ridge Ave., Philadelphia, Pa.,
Chemist, Martin & Wm. H. Nixon Paper Co., Manayunk, Phila.
- Holley, Clifford Dyer, B. S., Ubly, Mich.,
Cream Inspector.
- † Horner, Leon Herbert, B. S., Springfield, Mass.
- Jones, William Goldsbrough, B. S., 190 High St., Hartford, Conn.,
Insurance Underwriter, with Orient Insurance Company.
- Judge, Thomas Francis, B. M. E., Millinocket.
- Leathers, Harry Hewes, B. M. E., 439 Albany St., Boston, Mass.,
Mechanical Draftsman, Boston Elevated R. R. Co.
- Lombard, Charles Hutchinson, B. C. E., Morrisville, Pa.,
Civil Engineer, in Chief Engineer's Department, Pennsylvania
R. R.
- * Love, Alexander, B. C. E.
- Lurvey, John Gardner, B. M. E., with General Electric Company,
Lynn, Mass.,
Commercial Engineer, General Electric Co.
- McDonald, Frank, B. M. E., Schenectady, N. Y.,
Testing Department, General Electric Co.
- † Maddocks, Howard Lewis, B. C. E., Skowhegan.
- Hersey, Guy Alfred, B. C. E., Bangor,
Civil Engineer, with P. H. Coombs, Bangor.
- Mann, Edwin Jonathan, B. M. E., Bryant's Pond,
Foreman of Wood Working Factory.
- Merrill, Wilbur Louis, B. M. E., Schenectady, N. Y.,
Testing Department, General Electric Co.
- Mitchell, Fred Carlton, B. S., Fort Fairfield,
Principal of Fort Fairfield High School.
- Mitchell, Frank Henry, B. S., Orono,
Tutor in Chemistry.

- Murphy, George Ferguson, B. C. E., 7841 Susquehanna St., Pittsburg, Pa.,
Assistant Engineer with Pittsburg Construction Co.
- † Noyes, Frank Albert, B. M. E., Berlin, N. H.
- Owen, Alden Bradford, B. M. E., Ridgway, Pa.,
Head Draftsman, Ridgway Dynamo and Engine Co.
- Page, Arthur Southwick, B. C. E., 6608 Ridge Ave., Philadelphia, Pa.,
Draftsman, American Bridge Co., Pencoyd, Pa.
- Perkins, DeForest Henry, B. Ph., Freedom,
Principal of Freedom Academy.
- Philoon, Daniel Lara, B. S., 59 Summer St., Auburn,
With the Standard Dry Plate Co., Lewiston.
- Porter, Charles Omer, B. C. E., Cumberland Mills,
Teacher in Westbrook High School.
- Ricker, Percy Leroy, M. S., 1923 13th St., N. W., Washington, D. C.,
Assistant in Herbarium, U. S. Dept. of Agriculture, Office of
Agrostologist.
- Robbins, Charles Alphonso, B. S., Patten,
Principal of Mattawamkeag High School.
- * Rollins, Clarence Herbert, B. M. E.
- † Rollins, Frank Morris, B. S., Waterville.
- Russell, Leo Bernard, B. C. E., Farmington,
Wood Turner, Assistant Superintendent.
- † Smith, Edward Henry, B. M. E., East Sullivan.
- † Smith, Freeman Ames, B. S., Thorndike, Mass.
- Snowdeal, Adah, B. A., 23 State St., Augusta,
Office Clerk.
- Stickney, Grosvenor Wilson, B. M. E., 29 Union St., Clinton, Mass.,
Metropolitan Water Board, Dam & Aqueduct Dept.
- † Strange, Edward Moore, B. S., Calais.
- Strout, Howard Clinton, B. M. E., 310 Boston St., Lynn, Mass.,
Expert Electrician.
- Tate, Edwin Morrel, B. C. E., Alma, Ill.,
Resident Engineer, with Illinois Central R. R. Co., Civil Engin-
eering Dept.
- † Tate, Fred Foy, B. C. E., South Corinth.
- Vose, Fred Hale, B. M. E., Orono, Me.,
Instructor in Mechanical Engineering.
- Webster, Frank Elijah, B. M. E., 63 Walnut St., Somerville, Mass.,
Draftsman with The Crosby Steam Gauge & Valve Co.
- Weston, Benjamin Thomas, B. C. E., Madison,
Civil Engineer, with Great Northern Paper Co.
- Weston, Wallace Augustus, B. C. E., East Berlin, Conn.,
Draftsman, with American Bridge Company.
- Whitcomb, Joseph Onon, B. Ph., 33 Hoadley Building, New Haven,
Conn.,
Field Manager for R. I. and Conn. King-Richardson Co.

1901.

- Bartlett, Charles William, B. S., North New Portland,
Superintendent of Manufactory.
- Bartlett, Mark Jonathan, B. Ph., Bingham,
Principal of High School.
- Bartlett, Wales Rogers, B. A., Eliot,
Principal of High School.
- † Bixby, John Harold, B. S.
- Bixby, Oscar Merrill, B. S., 138 Front St., Schenectady, N. Y.,
Draftsman, General Electric Co.
- Boardman, William Harris, B. S., Buffalo, N. Y.,
Transit-man, Lackawana Iron & Steel Co.
- Bogart, Fred Hammond Hanson, B. S., 123 Hungerford St., Hartford,
Conn.,
Draftsman, with Electric Vehicle Co.
- Buck, Thomas, B. S., 6057 Ellis Ave., Chicago, Ill.,
Graduate Student at the University of Chicago.
- Cary, Lewis Robinson, B. S., Orono,
Assistant in Biology, University of Maine.
- Cobb, Arthur Leroy, B. S., 291 Jackson Boulevard, Chicago, Ill.,
Power Apparatus, Output Dept., Western Electric Co.
- † Crosby, Charles Elmer, B. S., Albion.
- Davis, Fred Merrill, B. S., Care of Kellogg Switchboard & Supply Co.,
Chicago, Ill.,
Electrician, Kellogg Switchboard & Supply Co.
- Davis, George Harold, B. S., Orono,
Tutor in Electrical Engineering, University of Maine.
- Faunce, Benjamin Franklin, B. S., 113 Union St., Johnstown, Pa.,
Inspector and Mechanical Engineer for Cambria Steel Company.
- Fitzgerald, Elsie Eunice, B. Ph., Oldtown,
Assistant, Grammar School, Oldtown.
- † Folsom, Harold Morrill, B. A., Oldtown.
- Fraser, Gertrude Lee, B. Ph., Orono,
Assistant, Orono High School.
- † French, Joseph Edward, B. S., South Chesterville.
- Goodwin, George Estyn, B. S., U. S. Engineer's Office, Winthrop Bldg.,
Boston, Mass.,
U. S. Inspector.
- Hamlin, Emily, B. S., Orono.
- Harvey, Clifford Dawes, B. S., Johnstown, Pa.,
Chemist, with Cimbria Steel Co.
- Harvey, LeRoy Harris, B. S., Botanical Dept., University of Chicago,
Chicago, Ill.,
Post Graduate student in Botany, University of Chicago.
- Howe, Ernest Judson, B. S., 682 Main St., Worcester, Mass.,
Draftsman, with The Norcross Bros. Co., General Contractors.
- Hoyt, Henry Perez, B. S., 245 44th St., Pittsburg, Pa.,
Draftsman, Structural Steel Work.

- † Keller, Percy Raymond, B. S., West Rockport.
 † Leonard, Herbert Henry, B. S., Orono.
 Lowell, Frank Holt, B. S., Pocantico Hills, N. Y.,
 Machinist, American Butter Cutting Machine Co.
 Martin, Bertrand Clifford, B. S., Fort Fairfield,
 Draftsman, B. & A. R. R.
 Martin, Fred Lewis, B. S., 237 South Leavitt St., Chicago, Ill.,
 Advertising Manager, Kellogg Switchboard & Supply Co., Chi-
 cago, Ill.
 Merrill, Maurice Barnaby, B. A., Milford,
 Principal of High School.
 Mitchell, Charles Augustus, B. S., Michigan Agr. College, Lansing, Mich.,
 Draftsman, Proposed Central Power Plant.
 † Pritham, Harry Charles, B. S., Freeport.
 Robinson, Alson Haven, B. S., 8 Divinity Hall, Cambridge, Mass.,
 Student, Harvard Divinity School.
 Ross, Mowry, B. S., Woodstock, Conn.,
 Teacher.
 Thompson, Samuel Day, B. A., 419 Hammond St., Bangor,
 Reporter, Bangor Daily Commercial.
 Varney Lewis Goodrich, B. S., York Haven, Pa.,
 Constructing Engineer and Draftsman for York Haven Water
 & Power Co.
 Ward, Thomas Hale, B. S., 332 West 145 St., New York, N. Y.,
 Electrician in Repair Shop of Metropolitan Street R'y. Co.
 Watson, Ernest Lauren, B. S., 5608 Ridge Ave., Philadelphia, Pa.,
 Signal Dept., Pennsylvania R. R.
 † Watts, Frank Erwin, B. S., Fryeburg.
 Woodbury, Stephen Edward, B. S., Care of the Cutler-Hammer M'fg.
 Co., 136 Liberty St., New York, N. Y.
 Designing and Testing.
 Wormell, Ralph Geddes, B. S., 319 Main St., Waterville.
 Draftsman, Motive Power Dept., M. C. R. R.

GRADUATES OF SHORT COURSES.

These students were awarded certificates. Those marked (L. E.) completed the course in library economy; others the short pharmacy course.

1895.

- Hamilton, Geneva Ring, (L. E.), Orono,
Assistant Librarian, University of Maine.
Ring, Virginia Mary (L. E.), Sangerville, Me.,
(Mrs. David O. Campbell.)
Sheridan, Lena Matilda (L. E.), 69 Newbury St., Lawrence, Mass.,
Trained Nurse.

1896.

- Greene, Carrie Smythe (L. E.), Rose Place, Bangor,
Librarian, Bangor Theological Seminary.
Vinal, Rena Pearl (L. E.), Orono.

1897.

- Bartlett, Charles Simming, Auburn,
Drug Clerk with Ralph F. Burnham.
† Bird, James Alfred, Bangor,
Druggist.
Gardner, Hope (L. E.), 2 Mullen St., Watertown, N. Y.,
(Mrs. S. C. Dillingham.)
Keirstead, Alvin Willard, Auburn, Me.,
Drug Clerk with O. W. Jones.
McCrillis, Ernest Julian, Beecher Falls, Vt.,
Druggist, Beecher Falls Drug Co.
McCrillis, William George, Bristol, N. H.,
Drug Clerk with Fowler & Co.
Nute, Albert James, Ph. G., B. S., M. D., 4 Washington Ave., Winthrop,
Mass.,
Physician and Medical Student, Harvard Medical College, Boston, Mass.
Parker, Dora Lucinda (L. E.), 118 High St., Danvers, Mass.,
Stenographer, Boston, Mass.
White, Charles Harry, Orono,
Clerk in Post Office.

1898.

- Cleaves, Daniel Lunt, B. S., Amherst, Mass.,
 Instructor in Chemistry, Mass. Agricultural College.
 Hall, Fred Elmer, 931 Congress St., Portland,
 Drug Clerk with Schlotterbeck and Foss Company.
 † MacDougal, Wilbur Edwin, Main St., Lewiston,
 Shipping Clerk.
 Mitchell, Curtis Boyd, Bangor,
 Drug Clerk with Fifield & Co.
 Walton, Russell Davenport, College of Physicians and Surgeons, Baltimore, Md.,
 Student.

1899.

- Webster, William Bryant, 68 Broad St., E. Weymouth, Mass.,
 Prescription Pharmacist.

1900.

- Crowell, William Henry, New Britain, Conn.,
 Druggist. Proprietor of Park Drug Store.
 Larrabee, George Pearson, Ph. C., Presque Isle, Me.,
 Pharmacist with F. Kilburn & Co.
 Taft, DeForest Reed.

1901.

- Berry, Richard Henry, Ph. C., Montville, Me.
 Sanford, John Foy, Ph. C., 28 Lisbon St., Lewiston, Me.,
 Pharmacist.

SCHOOL OF LAW.

1899.

- Fenderson, Frank Devereux, LL. B., Limerick.
Lawyer.
- Graham, Herbert Lewis, LL. B., Bar Harbor,
Lawyer.
- McGill, Laurence Vincent, LL. B., East Rochester, N. H.,
Lawyer. With Leslie P. Snow.

1900.

- Barker, Lewis Appleton, LL. B., Bangor,
Lawyer.
- Cook, Harold Elijah, LL. B., Cor. Main and Common Sts., Waterville,
Lawyer. (Cook & Small.)
- Dolan, John Frederick, LL. B., Bangor.
- Foss, Paul Frank, LL. B., Philippine Islands. r
- Gerrish, Hiram, LL. B., Brownville,
Lawyer.
- Gibbs, Bernard, Ph. B., LL. B., Madison,
Lawyer.
- Graton, Claude Dewing, LL. B. Burlington, Vt.,
Lawyer.
- Hobson, Ernest Emery, LL. B., Palmer, Mass.,
Lawyer.
- Hutchings, Edward, LL. B.
Lawyer.
- Jones, Freeland, LL. B., Bangor,
Lawyer.
- Ludgate, Verdi, LL. B., Sherman Mills,
Lawyer.
- McCarthy, Matthew, LL. B., Bangor,
Lawyer.
- Mackay, John Daniel, LL. B., Savings Bank Building, Quincy, Mass.,
Lawyer.
- Mills, Chester Horace, LL. B., Skowhegan,
Lawyer.
- Phillips, Harold John, LL. B., Skowhegan,
Lawyer.
- Pierce, Howard, LL. B., Fort Kent.
Lawyer, firm of Fenlason & Pierce.
- Price, Arthur Wellington, LL. B., Carmel,
Lawyer.

- † Robinson, Agnes May, LL. B.
 Sargent, Walter Joseph, LL. B., Brewer,
 Lawyer.
 Schwartz, Lewis Harry, LL. B., Central Building, Lawrence, Mass.,
 Lawyer.
 Small, Frank Judson, LL. B., Waterville,
 Lawyer. (Cook & Small).
 Stevenson, James Blisset, LL. B., Rumford Falls,
 Lawyer.
 Theriault, Dana Leo, LL. B., Caribou,
 Lawyer.
 † Thompson, Frederick Everett, LL. B.
 Waterhouse, William Henry, LL. B., Oldtown.
 Lawyer.
 Williams, Dana Scott, LL. B., 215 Lisbon St., Lewiston,
 Lawyer, firm of Belleau & Williams.

1901.

- Butler, Ernest Clifford, LL. B., Skowhegan,
 Lawyer, firm of Butler & Butler.
 Butterfield, Benjamin Franklin, LL. B., 13 Franklin Block, Bridgeport,
 Conn.,
 Clerk in office of law firm.
 Foster, Nathan Grant, LL. B., Weld,
 Lawyer.
 Plumstead, Frank, LL. B., Wiscasset.

ALPHABETICAL LIST OF GRADUATES.

Abbott, E	1876	Blanding, E. M	1876
Allan, B. J.	1886	Boardman, H. S.	1895
Allan, G. H.	1884	Boardman, J. R.	1888
Allen, C. P.	1876	Boardman, W. H.	1901
*Allen, W. A.	1874	Bogart, F. H. H.	1901
Andrews, F. O.	1890	Bowden, G. I.	1890
Andrews, H. B.	1888	Bowerman, F. H.	1900
Andrews, H. H.	1881	Bowler, F. C.	1894
Arey, R. J.	1891	Boynton, A. E.	1899
Atherton, G. F.	1892	Boynton, J. L.	1892
Atkinson, W. H.	1892	*Brainard, C. M.	1876
Atwood, E. M.	1897	Brann, L. J.	1899
Atwood, G. G.	1895	Brastow, W. T.	1897
Atwood, H. W.	1890	Brick, F. S.	1888
Ayer, J. M.	1886	*Briggs, F. P.	1889
Babb, G. H.	1890	Bristol, M. L.	1892
Bailey, F. W.	1898	Brown, A. H.	1890
Bailey, W. M.	1891	Brown, E. (Mrs. C. Gilman)	1878
*Balentine, W.	1874	Brown, H. W.	1881
Barker, G. G.	1896	Brown, J. W.	1899
Barron, W. D.	1898	Brown, W. B.	1897
Bartlett, C. W.	1901	Browne, C. W. H.	1882
Bartlett, J. M.	1880	Bryer, C. S.	1897
Bartlett, M. J.	1901	Buck, A. H.	1895
Bartlett, W. R.	1901	Buck, C. L. (Mrs. T. W. Hine)	1881
Bassett, E. P.	1899	Buck, H. B.	1893
Batchelder, F. L.	1899	Buck, T.	1901
*Batchelder, G. S.	1888	*Buker, G. H.	1876
Bates, S. W.	1875	Bunker, S. S.	1897
Bean, H. P.	1879	Bumps, W. A.	1875
Beckler, E. H.	1876	Burgess, W. J.	1900
Beedle, H. W.	1900	Burleigh, J. H.	1887
Belcher, W. E.	1899	*Burleigh, W. H.	1884
Bickford, C. S.	1882	Burnham, A. R. (Miss).	1900
Bird, A. L.	1900	Burns, R. B.	1887
Bird, J.	1890	Butler, H.	1888
Bisbee, F. W.	1876	Butterfield, W. R.	1892
Bixby, J. H.	1901	Buzzell, S. J.	1882
Bixby, O. M.	1901	Cain, J. H.	1883
Black, G. F.	1886	Calderwood, I. G.	1895
Blackington, A. DeO	1877	Caldwell, A. J.	1878
*Blackington, R. H.	1890	Campbell, D. E.	1888
Blackwell, C. E.	1899	Cargill, W. N.	1900
Blagden, J. D.	1886	Carlton, R. H.	1899
Blake, E. J.	1877	Cary, L. R.	1901
Blachard, C. D.	1888	Caswell, W. B.	1899

Caswell, W. H.....	1900	Dolley, W.....	1898
Chamberlain, C. C.....	1878	Doolittle, H. E.....	1892
Chamberlain, G. W.....	1885	Dow, F. T.....	1890
Chase, J. P.....	1897	Dow, L. E.....	1898
Chase, W. W.....	1895	Downing, M. B.....	1899
Cilley, J. V.....	1883	Drew, A. W.....	1890
Cilley, L. V. P.....	1887	Drew, I. H.....	1899
*Clapp, S. H.....	1875	Drummond, H. F.....	1900
Clark, B. E.....	1887	Duncan, L.....	1897
Clark, E.....	1891	Dunn, J. S.....	1900
Clark, H.....	1890	Dunn, R. E.....	1898
Clark, H. H.....	1899	Dunn, R. O.....	1898
Clark, R. C.....	1892	Dunton, H. D.....	1890
Clark, W. C.....	1900	Dunton, O. H.....	1882
Clary, J. R.....	1897	*Durham, C. F.....	1875
Clayton, C.....	1891	*Durham, L. T.....	1894
Cleaves, D. L.....	1899	Dutton, O. J.....	1885
Closson, J. E.....	1900	Eastman, F. L.....	1900
Cobb, A. L.....	1901	Eaton, H. D.....	1900
*Coffin, A. J.....	1890	Eaton, R. W.....	1873
Coffin, E. V.....	1887	Edgerly, J. W.....	1889
Colburn, F. E., (Mrs. A. L. Fernald)	1881	Edwards, L. N.....	1898
Colburn, L. F.....	1875	Elkins, A. J.....	1877
Colby, D. W.....	1875	Elliot, F. B.....	1880
Cole, C. L.....	1900	Ellis, W. E.....	1895
Colesworthy, C. F.....	1875	Ellis, W. L.....	1898
Collins, G.....	1899	*Elwell, E. H.....	1888
Cosmey, S. H.....	1897	Emery, A. (Miss).....	1877
*Conroy, M. F., (Mrs. A. R. Saunders)	1884	Emery, F. E.....	1883
Cowan, E. H.....	1894	Estabrooke, H. M.....	1876
Cowan, F. H., (Miss).....	1876	Farnham, C. H.....	1897
Cowan, G. P.....	1894	Farrar, L. G.....	1898
Crockett, C. W.....	1899	Farrell, H. C.....	1896
Crosby, C. E.....	1901	Farrington, A. M.....	1876
Crosby, O.....	1876	Farrington, E. H.....	1881
Crosby, S. P.....	1879	Farrington, H. P.....	1890
Crosby, W. W.....	1893	Farrington, H. R.....	1891
Crowell, C. P.....	1898	Farrington, M. E.....	1892
Croxford, W. E.....	1890	Farrington, O. C.....	1881
Cushman, C. G.....	1889	*Farrington, S. B. (Mrs. G. P. Merrill).....	1880
Cutter, J. D.....	1879	Farrington, Wallace R.....	1891
Cutter, L. W.....	1884	Farrington, William R.....	1891
*Cyr, V.....	1876	Faunce, B. F.....	1901
Dakin, E. H.....	1877	Ferguson, J. S.....	1889
Damon, F. H.....	1895	Ferguson, W. E.....	1879
Danforth, E. F.....	1877	Fernald, A. L.....	1883
Danforth, E. W.....	1892	Fernald, C. W.....	1880
Davis, E. H.....	1898	Fernald, G. E.....	1878
Davis, F. M.....	1901	Fernald, H. C. (Mrs. J. A. Pierce).....	1884
Davis, G. H.....	1901	Fernald, H. T.....	1885
Davis, H. A.....	1900	Fernald, R. H.....	1892
Davis, M., (Mrs. J. D. Stevens).....	1880	*Fernald, Roy L.....	1896
Dearborn, J. W.....	1898	Fernald, Reginald L.....	1899
Decker, W. F.....	1879	Fernandez, G. L.....	1898
Decrow, D. A.....	1879	Fickett, F. W.....	1880
*Dike, J. E.....	1876	Fitzgerald, E. E. (Miss).....	1901
*Dike, W. O.....	1876	Flanagan, J. H.....	1891
Dillingham, S. C.....	1898	Flint, B. W.....	1899
Dole, A.....	1885		

Flint, W.	1882	Haney, W. W.	1899
Fogg, C. H.	1881	Hanscom, G. L.	1885
Folsom, H. M.	1901	Hardison, A. C.	1890
Folsom, L. R.	1895	Hart, J. N.	1885
Ford, L. H.	1899	Hart, M. C.	1900
Foss, G. O.	1876	Harvey, C. C.	1890
Fraser, G. L. (Miss)	1901	Harvey, C. D.	1901
Freeman, G. G.	1889	Harvey, J. E.	1894
French, C. F.	1893	Harvey, L. H.	1901
French, H. S.	1886	Haskell, E. J.	1872
French, J. E.	1901	Haskell, N. P.	1876
Frost, C. A.	1895	de Haseth, G. A.	1895
Frost, G. S.	1888	Hatch, E. E.	1884
Fuller, G. R.	1882	Hatch, H. A.	1900
Gannett, C. H.	1893	Hatch, J. W.	1888
Garland, C. C.	1882	Hayes, A. D.	1894
Gay, G. M.	1889	Hayes, C. M.	1899
Gerrish, W. H.	1874	Hayes, J. A.	1900
Gibbs, B.	1898	Hayes, S. H. T.	1890
Gibbs, C. W.	1879	Heald, J.	1878
Gibbs, E. E.	1896	Healey, W. E.	1892
Gibbs, J. C.	1892	Heath, E. F.	1890
Gilbert, C. E.	1894	Heath, S. J.	1897
Glidden, E. G.	1896	Hersey, G. A.	1900
Goodale, A. M.	1875	Hersey, G. W.	1899
Goodridge, E. O.	1885	Heyer, H. S.	1899
Goodridge, P. F.	1897	Hicks, A. A., (Mrs. G. F. Black) ...	1887
Goodwin, G. E.	1901	Higgins, H. A.	1898
Goodwin, P. R.	1900	Hill, J. E.	1884
Gorham, F. E.	1897	Hilliard, H.	1872
Gould, A. M. (Mrs. L. F. Goodale) ...	1879	Hilton, G. L.	1899
Gould, B. F.	1872	Hine, T. W.	1882
Gould, F. G.	1894	Hitchings, E. F.	1875
Gould, G. P.	1890	Hobbs, F. A.	1896
Gould, H. P.	1893	Holden, W. C.	1892
Gould, J. F.	1882	Holly, C. D.	1900
Gould, S. W.	1877	Holt, F. W.	1873
Gould, V. K.	1897	*Holt, N. M., (Miss)	1879
Graves, E. D.	1886	Holyoke, W. L.	1897
Graves, J. C.	1891	Horner, L. H.	1900
Gray, C. P.	1900	How, E.	1876
Gray, J. A.	1894	Howard, W. R.	1882
Grover, A. C.	1892	Howe, E. J.	1901
Grover, A. L.	1899	Howes, C. L.	1888
Grover, N. C.	1890	Hoxie, H. F.	1899
Grover, O. L.	1895	Hoyt, H. P.	1901
Gurney, J. I.	1874	Hubbard, P. W.	1876
Haggett, E. R.	1889	Hull, F. E.	1885
Haines, W. T.	1876	Hunter, R. D.	1874
Hall, G. A.	1894	Hurd, A. L.	1882
Hall, H. A.	1891	Hutchinson, G. W.	1893
Hamilton, H. F.	1876	Ingalls, A. T.	1881
Hamlin, C.	1891	Jack, W. D.	1893
Hamlin, E., (Miss)	1901	Jeffery, G. W.	1896
Hamlin, G. H.	1873	Johnson, B. R.	1898
Hamlin, G. O.	1900	*Johnson, R. J.	1881
Hamlin, R.	1898	Jones, R. K.	1886
Hammond, G. E.	1872	Jones, S. M.	1876
Hancock, W. J.	1888	Jones, W. G.	1901

Jordan, A. T	1894	Marsh, R. H	1888
Jordan, W. H	1875	Marston, F. L	1896
Jose, W. H	1894	Martin, B. C	1901
Judge, T. F	1900	Martin, F. L	1901
Keith, A. J	1882	Martin, H. S	1896
Kelleher, B. P	1883	Martin, J. W	1895
Keller, P. R	1901	Martin, N. H	1876
Kelley, E. H	1890	Mason, C. A	1887
Kelley, J. G	1884	Mathews, A. A	1880
Keyes, A. H	1885	Mayo, E. D	1875
*Keyes, C. E.	1890	Mayo, H. P	1899
Keyes, P., Jr	1891	McDonald, F	1900
Kidder, E. E	1896	McIntyre, H. F	1881
Kidder, F. E	1879	McNally, H. A	1887
Kilburn, C. H	1891	Menges, H. G	1891
Kimball, F. I	1882	Merriam, W. H	1886
*Kimball, J. M	1894	Merrill, D. T	1898
Kittredge, C. P	1893	Merrill, E. D	1898
Knight, O. W	1895	Merrill, F	1887
Ladd, E. F	1884	Merrill, E. C	1895
Lawrence, G. W	1898	Merrill, G. P	1879
Lazell, J. D	1887	Merrill, H. P	1898
Leathers, H. H	1900	Merrill, T. L	1891
Leavitt, H. E., (Mrs. W. Flint)	1890	Merrill, L. H	1883
Leavitt, N. L., (Miss)	1889	Merrill, M. B	1901
Lenfest, E	1886	Merrill, W. L	1900
Leonard, H. H	1901	Merritt, E. E	1886
Lewis, A. A	1876	Meserve, J. W	1879
Lewis, H. M	1893	Michaels, J. C., (Miss)	1883
Libby, A. D. T	1898	*Miller, S. F	1888
Libby, C. A., (Miss)	1881	Mitchell, A. E	1875
Libby, F. J	1896	Mitchell, A. G	1875
Libby, H. I	1898	Mitchell, C. A	1901
Libby, M. D	1879	Mitchell, F. C	1900
Lincoln, H. F	1888	Mitchell, F. H	1900
Lincoln, H. M	1898	Moor, C. L	1881
Locke, J., Jr	1878	Moore, A. L	1879
Lockwood, J. F	1886	*Moore, F. L	1875
Lombard, C. H	1900	Morrell, W. B	1899
Long, H. A	1876	Morey, E. L	1890
Lord, R. W	1891	Morey, W., Jr	1885
Lord, T. G	1888	Morrill, E. N	1890
*Loring, C. S	1879	Morrill, W. J	1899
Lothrop, L. R	1876	Morse, C. A	1879
*Love, A.	1900	Mosher, E. S. E	1899
Lowell, F. H	1901	Moulton, A	1895
Lufkin, G. W	1880	Moulton, F. C	1891
Lull, G. F	1886	Moulton, J	1885
Lunt, C. S	1884	Mullen, C. W	1883
*Lunt, J. C	1877	Murphy, C. C	1893
Lurvey, J. G	1900	Murphy, G. F	1900
Maddocks, H. L	1900	Murphy, W. M	1895
Macloon, E. H	1897	*Murray, B. F	1881
Maguire, G	1892	Murray, H.	1894
Mann, E. J	1900	Murray, H. W	1880
Mansfield, E. R	1899	Murray, W. A	1899
Mansfield, F. A	1880	Nelson, W	1899
Manson, R. H	1893	Niles, H. L	1896
Manter, R. B	1896	Norwood, L. O	1894

Noyes, F. A	1900	Reynolds, H. J.	1876
Oak, C. E	1876	Ricker, P. L.	1900
Oak, J. M.	1873	Riggs, L. W.	1885
Oakes, F. J.	1878	Ring, A. I., (Mrs. C. J. Dunn)	1881
Osborn, E. W.	1881	Ring, M. L., (Mrs. H. H. Andrews)	1881
Oswald, H. H.	1899	Robbins, C. A.	1900
Owen, A. B.	1900	Robinson, A. H.	1901
Owen, J. W.	1880	Robinson, H. G.	1895
Page, A. D.	1886	Robinson, L., Jr.	1883
Page, A. S.	1900	Rogers, A.	1897
Page, W. R.	1886	Rogers, C. W.	1876
Paine, L. G.	1885	Rogers, L. A.	1896
Palmer, E. E.	1899	Rogers, L. W.	1875
Palmer, P. B.	1896	Rogers, S. E.	1883
Parks, G. D.	1876	*Rollins, C. H.	1900
Pattee, C. J.	1895	Rollins, F. M.	1895
Patten, A. J.	1897	Rollins, M. F.	1895
Patten, J. H.	1882	Ross, M.	1901
Patten, T. M.	1880	Rowe, G. F.	1893
Patten, W. N.	1891	Rumball, G. W.	1894
Patterson, J. C.	1878	Russell, F. L.	1885
Pearce, C. A.	1893	Russell, L. B.	1900
Pease, C. T.	1880	Russell, M. R.	1897
Pease, O. L.	1881	Ryther, L. E.	1898
Peirce, H.	1876	Sargent, P. D.	1896
Peirce, V. J.	1890	Saunders, A. R.	1887
Peirce, W. B.	1890	Sawtelle, F. W.	1898
Pierce, W. B.	1890	Sawyer, F. W.	1890
Pennell, E. E.	1885	Scribner, F. L.	1873
Perkins, D. H.	1900	Seabury, G. E.	1858
Philbrook, W.	1888	Sears, C. A.	1887
Phillips, F. F.	1877	Sewall, M. W.	1875
Philoan, D. L.	1900	*Shaw, A. J.	1879
Pillsbury, G. M.	1890	Shaw, G. M.	1875
Plaisted, H. M.	1881	Shaw, O. J.	1893
Porter, B. F.	1897	*Shaw, S.	1877
Porter, C. O.	1900	Sidensparker, S.	1899
Porter, J. W. H.	1897	Simpson, E. R.	1896
Potter, F. D.	1879	Small, A. C.	1898
Powell, M. H., (Miss)	1899	Small, C. L.	1899
Powell, M. L.	1899	Small, F. L.	1888
Powers, H. W.	1883	Smith, E. H.	1900
Pretto, J. H.	1899	Smith, E. M.	1899
Pride, F. P.	1896	Smith, F. A.	1888
Pritham, H. C.	1901	Smith, F. A.	1900
Purrington, J. F.	1880	Smith, G. A.	1898
Putnam, C. E.	1883	Smith, H. M.	1893
Quincy, F. G.	1890	*Smith, R. L.	1881
Rackliffe, J. R.	1890	Snow, G. C.	1882
Ramsdell, L. H., (Mrs. M. D. Noyes)	1874	Snowdeal, A. (Miss)	1900
Randlette, C. M.	1892	Southard, L. C.	1875
Randlette, J. W.	1896	Sprague, A. P.	1898
Ray, I. B.	1886	Starbird, A. A.	1898
*Reed, C. E.	1873	Starr, J. A.	1896
Reed, F. R.	1876	Starrett, A. P.	1882
Reed, F. M.	1882	Starrett, H. V.	1891
Reed, F. P.	1890	Stephens, A. W.	1899
Reed, J.	1889	Stevens, C. H.	1887
Reed, N. W., (Miss)	1889	*Stevens, F.	1889

Stevens, F. L.	1884	Walker, P.	1896
Stevens, H. E.	1897	Wallace, C. J.	1890
Stevens, R. P.	1898	Ward, T. H.	1901
Stevens, T. J.	1877	Warren, G. O.	1879
Stevens, W. L.	1876	Watson, E. L.	1901
Steward, J. W.	1891	Watts, F. E.	1901
Steward, S. J.	1896	Webb, H. S.	1887
Stickney, G. W.	1900	Webb, W.	1875
Stinson, F. M.	1899	Webb, W. S.	1890
Stone, F. P.	1877	Webber, W.	1884
Stover, O. O.	1899	Webster, C. S.	1898
Strange, E. M.	1900	Webster, E. C.	1882
Strout, H. C.	1900	Webster, F. E.	1900
Sturgis, E. A.	1898	Webster, H.	1879
Sturgis, G. E.	1877	Webster, I. E.	1877
Sturtevant, C. F.	1887	Webster, J. M.	1893
Sturtevant, G. W.	1881	Webster, O. C.	1878
Sutton, G. A.	1883	Weeks, J. W.	1877
Swain, J. H.	1899	Weeks, N. E. (Mrs. L. Spencer) ...	1877
Swain, P. C. (Mrs)	1899	Welch, W. E.	1898
Swan, C. B.	1890	Wescott, A. C.	1899
Tarr, R. D.	1898	Weston, B. T.	1900
Tate, E. M.	1900	Weston, C. P.	1896
Tate, F. F.	1900	Weston, G. O.	1872
Taylor, C. N.	1891	Weston, W. A.	1900
Taylor, L. W.	1883	Weymouth, F. E.	1896
Thayer, H. B.	1873	Whitcomb, B. D.	1896
Thomas, C. D.	1895	Whitcomb, J. O.	1900
Thomas, E. D.	1872	White, H. L.	1898
Thompson, G. E.	1891	*White, M. E.	1889
Thompson, S. D.	1901	*White, W. A.	1881
Timberlake, S. M.	1892	Whitney, G. A.	1893
Todd, F. H.	1882	Whittemore, G. A.	1896
Tolman, F. S.	1892	Whittier, C. C.	1899
Tolman, G.	1896	Wight, R. H.	1890
Tolman, W. R.	1898	Wight, W. A.	1882
Towne, C. E.	1877	Wilkins, G. B.	1896
Trask, F. E.	1887	Williams, C. S.	1890
Tripp, W. E.	1878	Williams, H.	1893
Twombly, S. S.	1886	Williams, J. H.	1876
Tyler, J. A.	1892	Williams, J. S.	1887
Upton, E. C.	1897	*Wilson, J. B.	1881
Urann, M. L.	1897	Wilson, M. F.	1889
Valentine, W. A.	1891	Wilson, N. E.	1888
Varney, L. G.	1901	Wiswell, C. G.	1898
Veazie, M. M.	1899	Wood, E. B.	1894
Vickery, G. S.	1889	Woodbury, S. E.	1901
Vinal, P. A. (Mrs. A. White).	1879	Woodward, D. C.	1882
Vose, C. T.	1887	*Work, E. A.	1875
Vose, F. H.	1900	Wormell, R. G.	1901
Wade, F. S.	1881	Wyman, L. A.	1881
Walker, E. C.	1878		

ALPHABETICAL LIST OF GRADUATES OF SHORT COURSES.

Bartlett, C. S	1897	MacDougal, W. E	1898
Berry, R. H	1901	Mitchell, C. B	1898
Bird, J. F	1897	Nute, A. J	1897
Cleaves, D. L	1898	Parker, D. L., (Miss)	1897
Crowell, W. H	1900	Ring, V. M. (Mrs. D. O. Campbell)	1895
Gardner, H., (Mrs. S. C. Dillingham)	1897	Sanford, J. F	1901
Green, C. S., (Miss)	1898	Sheridan, L. M., (Miss)	1895
Hall, F. E.	1898	Taft, D. R	1900
Hamilton, G. R., (Miss)	1895	Vinal, R. P., (Miss)	1896
Keirstead, A. W	1897	Walton, R. D	1898
Larrabee, G. P	1900	Webster, W. B	1899
McCullis, E. J	1897	White, C. H.	1897
McCullis, W. G	1897		

ALPHABETICAL LIST OF GRADUATES OF THE SCHOOL
OF LAW.

Barker, L. A	1900	McGill, L. V.	1899
Butler, E. C	1901	Mackay, J. D.	1900
Butterfield, B. F	1901	Mills, C. H.	1900
Cook, H. E.	1900	Phillips, H. J	1900
Dolan, J. F	1900	Pierce, H	1900
Fenderson, F. D.	1899	Plumstead, F.	1901
Foss, P. F	1900	Price, A. W	1900
Foster, N. G.	1901	Robinson, A. M., (Miss)	1900
Gerrish, H	1900	Sargent, W. J	1900
Gibbs, B	1900	Schwartz, L. H.	1900
Graham, H. L	1899	Small, F. J.	1900
Graton, C. D.	1900	Stevenson, J. B	1900
Hobson, E. E.	1900	Theriault, D. L.	1900
Hutchings, E.	1900	Thompson, F. E.	1900
Jones, F	1900	Waterhouse, W. H.	1900
Ludgate, V	1900	Williams, P. S.	1900
McCarthy, M	1900		



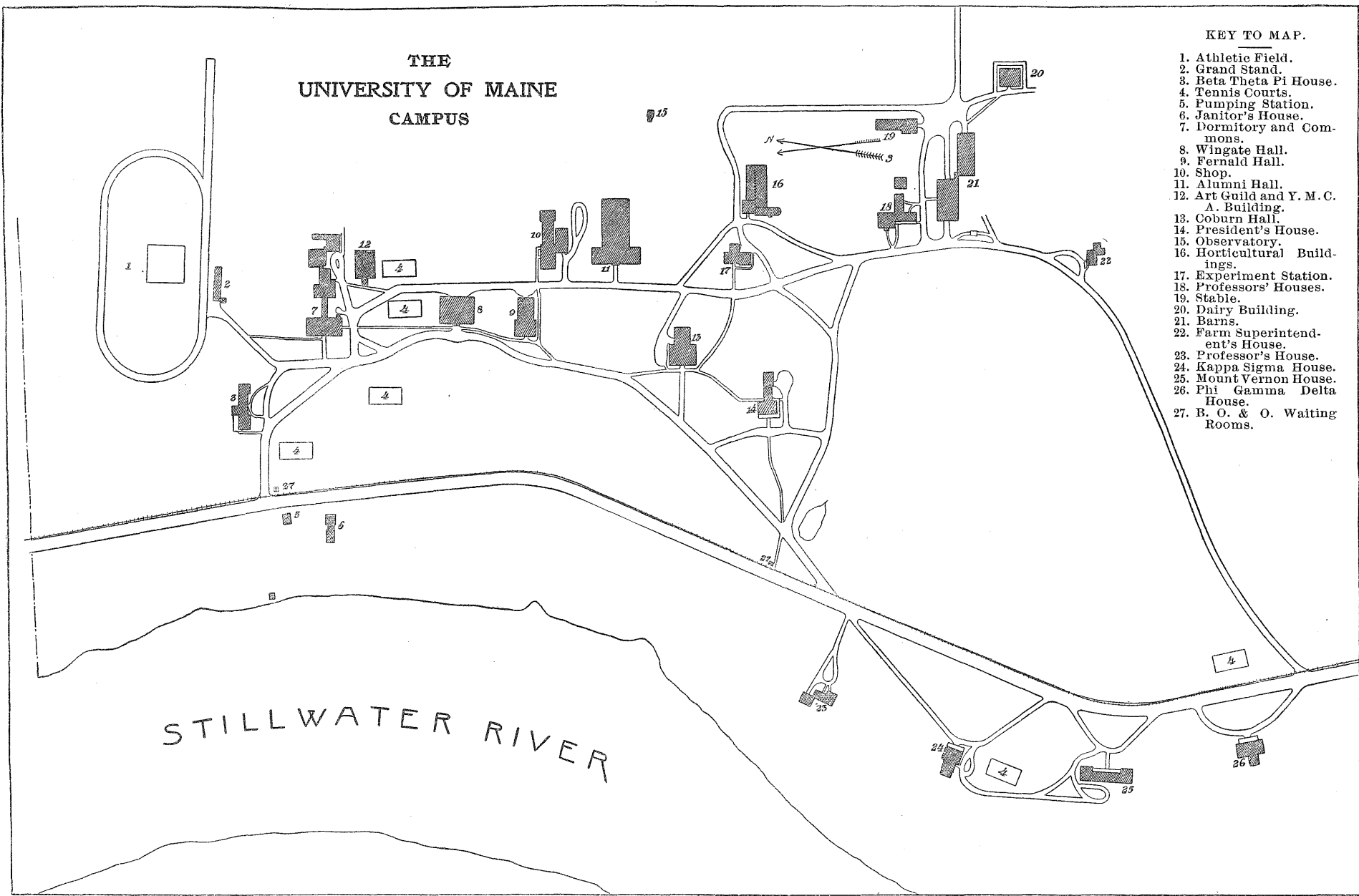


A VIEW OF THE CAMPUS

THE
UNIVERSITY OF MAINE
CAMPUS

KEY TO MAP.

1. Athletic Field.
2. Grand Stand.
3. Beta Theta Pi House.
4. Tennis Courts.
5. Pumping Station.
6. Janitor's House.
7. Dormitory and Commons.
8. Wingate Hall.
9. Fernald Hall.
10. Shop.
11. Alumni Hall.
12. Art Guild and Y. M. C. A. Building.
13. Coburn Hall.
14. President's House.
15. Observatory.
16. Horticultural Buildings.
17. Experiment Station.
18. Professors' Houses.
19. Stable.
20. Dairy Building.
21. Barns.
22. Farm Superintendent's House.
23. Professor's House.
24. Kappa Sigma House.
25. Mount Vernon House.
26. Phi Gamma Delta House.
27. B. O. & O. Waiting Rooms.





CATALOGUE

OF THE

University of Maine

1901-1902



ORONO, MAINE

AUGUSTA, MAINE
KENNEBEC JOURNAL PRINT
1902

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CALENDAR

FALL TERM, 1901

September 16,	Monday,	Arrearage examinations begin.
September 17,	Tuesday,	Entrance examinations begin.
September 19,	Thursday,	Fall term begins.
November 26,	Tuesday,	Meeting of the Board of Trustees.
November 26,	Tuesday,	Thanksgiving recess begins, 4.30 P. M.
December 3,	Tuesday,	Thanksgiving recess ends, 7.45 A. M.
December 6,	Friday,	Sophomore prize declamations.
December 19,	Thursday,	Christmas recess begins, 4.30 P. M.
December 31,	Tuesday,	Arrearage examinations begin (Spring term studies).

1902

January 2,	Thursday,	Christmas recess ends, 7.45 A. M.
January 31,	Friday,	Fall term ends.

SPRING TERM, 1902

February 3,	Monday,	Spring term begins.
February 22,	Saturday,	Washington's birthday.
March 26,	Wednesday,	Easter recess begins, 4.30 P. M.
March 31,	Monday,	Arrearage examinations begin (Fall term studies).
April 2,	Wednesday,	Easter recess ends, 7.45 A. M.
May 24,	Saturday,	Senior vacation begins.
May 30,	Friday,	Memorial day.

June	7, Saturday,	Junior exhibition.
June	8, Sunday,	Baccalaureate sermon.
June	9, Monday,	Convocation.
June	9, Monday,	Class day.
June	10, Tuesday,	Meeting of the Board of Trustees.
June	10, Tuesday,	Exhibition drill.
June	10, Tuesday,	Receptions by the fraternities.
June	10, Tuesday,	Reception by the President.
June	11, Wednesday,	COMMENCEMENT.
June	11, Wednesday,	Commencement dinner.
June	11, Wednesday,	Meeting of the Alumni Association.
June	11, Wednesday,	Commencement concert.
June	12, Thursday,	Entrance examinations begin.

FALL TERM, 1902

September	15, Monday,	Arrearage examinations begin.
September	16, Tuesday,	Entrance examinations begin.
September	18, Thursday,	Fall term begins.
November	25, Tuesday,	Meeting of the Board of Trustees.
November	25, Tuesday,	Thanksgiving recess begins, 4.30 P. M.
December	2, Tuesday,	Thanksgiving recess ends, 7.45 A. M.
December	5, Friday,	Sophomore prize declamations.
December	18, Thursday,	Christmas recess begins, 4.30 P. M.
December	30, Tuesday,	Arrearage examinations begin (Spring term studies).

1903

January	1, Thursday,	Christmas recess ends, 7.45 A. M.
January	30, Friday,	Fall term ends.

SPRING TERM, 1903

February	2, Monday,	Spring term begins.
June	10, Wednesday,	COMMENCEMENT.

CALENDAR OF THE SCHOOL OF LAW

1901

October 2, Wednesday, Fall term begins.
December 18, Wednesday, Fall term ends.

1902

January 8, Wednesday, Winter term begins.
March 19, Wednesday, Winter term ends.

March 26, Wednesday, Spring term begins.
June 11, Wednesday, COMMENCEMENT.
October 1, Wednesday, Fall term begins.
December 17, Wednesday, Fall term ends.

1903

January 7, Wednesday, Winter term begins.
March 18, Wednesday, Winter term ends.

March 25, Wednesday, Spring term begins.
June 10, Wednesday, COMMENCEMENT.

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TREASURER

HON. ISAIAH KIDDER STETSON, B. PH.,	Bangor.
-------------------------------------	---------

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VORANUS LATHROP COFFIN,.....	Harrington.
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Instructor in Law.
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- HORACE WILLIAM BRITCHER, B. C. E.,.....Middle Street.
Assistant Zoologist in the Experiment Station.
- MARSHALL BAXTER CUMMINGS, B. S.,.....Campus.
Assistant in Horticulture and Botany.
- GENEVA RING HAMILTON,.....Myrtle Street.
Assistant Librarian.
- ELIZABETH ABBOTT VALENTINE,.....Campus.
Secretary to the President and Secretary of the
Faculty.

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Approved Schools

Professor Estabrooke, Professor Fernald, Professor Harrington (Secretary), Professor Hart, Professor Huddilston, Professor Stevens.

Athletics

Professor Jones, Professor Lewis, Mr. Grover.

Catalogue

Professor Harrington, Professor Grover, Professor Merrill.

Course of Study

Professor Grover, Professor Hart, Professor Drew, Mr. Harry.

Executive Committee

Professor Hart, Professor Stevens, Professor Webb.

Graduate Degrees

Professor Fernald, Professor Estabrooke, Professor Harrington, Professor Webb.

Honors

Professor Stevens, Professor Huddilston, Professor Munson, Professor Drew.

Library

Professor Jones, Professor Estabrooke, Professor Flint, Professor Jackman.

Rules

Professor Woods, Professor Stevens, Professor Munson.

Student Advisers

For Freshmen in all courses: Professor Lewis, Mr. Cole.

For all other students in the Classical, Latin-Scientific, and Scientific Courses, Professor Harrington.

For all other students in the Chemical, Agricultural, Pharmacy, and Preparatory Medical Courses, Professor Jackman.

For all other students in the Civil Engineering Course, Professor Grover.

For all other students in the Mechanical Engineering Course, Professor Flint.

For all other students in the Electrical Engineering Course, Professor Webb.

THE UNIVERSITY OF MAINE

ESTABLISHMENT

By an act of Congress, approved July 2, 1862, it was provided that there should be granted to the States, from the public lands, "thirty thousand acres for each Senator and Representative in Congress," from the sale of which there should be established a perpetual fund, "the interest of which shall be inviolably appropriated, by each State which may take and claim the benefit of this act, to the endowment, support, and maintenance of at least one college where *the leading object 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, in such manner as the legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life.*" The act forbade the use of any portion of the principal or interest of this fund for the purchase, erection, or maintenance of buildings; and required each state taking the benefit of the provisions of the Act "to provide within five years not less than one college" to carry out the purposes of the Act.

Maine accepted this grant in 1863, and in 1865 constituted "a body politic and corporate, by the name of the Trustees of the State College of Agriculture and the Mechanic Arts." The Trustees were authorized to receive and hold donations, to select the professors and other officers of the college, to establish the conditions for admission, to lay out courses of study, to grant degrees, and to exercise other usual powers and privileges.

The Governor and Council were given the right "to examine into the affairs of the college, and the doings of the trustees, and to inspect all their records and accounts, and the buildings and premises occupied by the college."

It was provided that in addition to the studies especially required by the Act of Congress, the college should teach such other studies as its facilities would permit.

The Legislature of 1897 changed the name of the institution to "The University of Maine."

ENDOWMENT AND INCOME

The State of Maine received, under the Act of Congress above referred to, two hundred and ten thousand acres of public land, from which the University has realized an endowment fund of \$118,300. This has been increased by a bequest of \$100,000 from Abner Coburn of Skowhegan, who was for many years president of the Board of Trustees. The town of Orono contributed \$8,000, and the town of Oldtown \$3,000, for the purchase of the site on which the buildings stand. The State has appropriated about \$300,000 for the material equipment.

Under an Act of Congress approved March 2, 1887, the University receives \$15,000 annually for the maintenance of the department known as the Agricultural Experiment Station.

Under an Act of Congress approved August 30, 1890, the University receives \$25,000 annually for its more complete endowment and maintenance.

Under an Act of the Legislature, approved March 20, 1897, the University receives \$20,000 annually from the State for current expenses. Student fees and miscellaneous receipts complete the income.

LOCATION

The University has a beautiful and healthful location in the town of Orono, Penobscot county, half way between the villages of Orono and Stillwater, three miles from the city of Oldtown, and nine miles from the city of Bangor. The Stillwater river, a branch of the Penobscot, flows in front of the buildings, forming the western boundary of the campus. Orono is upon the Maine Central Railroad and is easy of access from all parts of the State.

The Bangor, Orono and Oldtown Electric Railroad runs through the university grounds. Visitors will find it convenient to take the electric cars at Bangor, Veazie, or Oldtown, as the electric road does not run to the railroad station at Orono. Baggage may be sent to Orono by the Maine Central Railroad.

The School of Law is located in the Exchange Building, Bangor, at the corner of Exchange and State streets.

THE BUILDINGS AND THEIR EQUIPMENT

WINGATE HALL.—One of the most conspicuous buildings on the campus, Wingate Hall, named in honor of William P. Wingate of Bangor, long an honored member of the board of trustees, is a three-story brick structure, rectangular in form, with a handsome clock tower. It was erected for the departments of civil and mechanical engineering, but is at present occupied in part by other departments. On the ground floor are two large designing rooms, recitation rooms, instrument rooms, and private offices for the professors in the engineering departments. On the

second floor are the offices and recitation rooms of the professors of physics, Greek, and Latin, the physical laboratories, and the apparatus room. On the third floor are large, well lighted drawing rooms. In the basement are the dynamo laboratory and the testing room of the department of civil engineering. The testing room contains a Riehle testing machine of 60,000 pounds capacity, cement testing machine, etc. The dynamo laboratory is provided with six direct-current dynamos, two alternating-current dynamos, a rotary converter, transformer, ammeters, voltmeters, wattmeters, rheostats, switches, etc., affording accommodations for fifteen students in a section.

OAK HALL.—North of Wingate Hall is Oak Hall, a substantial four-story brick building used as a dormitory for men, named in honor of Lyndon Oak of Garland, for many years a useful member of the board of trustees. It contains forty-nine study rooms for students, and is supplied with bath rooms. It is heated by steam, supplied with water, and lighted by electricity. It was remodeled in 1895.

FERNALD HALL.—This building, named in honor of Merritt C. Fernald, Ph. D., president of the University from 1879 to 1893, is a two-story brick building, situated south of Wingate Hall. It contains fifteen rooms devoted to the departments of chemistry and pharmacy. On the first floor are the quantitative and pharmaceutical laboratories, with offices and private laboratories for the professors of chemistry and pharmacy; upon the second floor are the lecture rooms, the qualitative laboratory, the office and private laboratory of the instructor in qualitative analysis, a store room, and a recitation room. Under the roof are arranged the photographic studio, laboratory, and dark rooms. In the basement is an assay laboratory, the laboratory for beginners, and store rooms. The department is well supplied with apparatus.

COBURN HALL.—Directly south of Fernald Hall is Coburn Hall, named in honor of Abner Coburn of Skowhegan, the chief benefactor of the University. It is a brick building, three stories in height. In the basement and on the first floor are located the reading rooms and the library, the laboratory and recitation room of the professor of agriculture, and the recitation room of the

professor of English. On the second floor are the botanical and entomological laboratories, and recitation rooms for the departments of biology, English, and modern languages. Over the library is the museum. The collections are large and constantly increasing. On the third floor are recitation rooms for the departments of civics and history, philosophy, and modern languages, the modern language seminary room, and the psychological laboratory.

ALUMNI HALL.—To the northeast of Coburn Hall stands the new Alumni Hall, erected in 1900, the largest of the recent additions to the university buildings. The front part contains on the ground floor the offices of the president, secretary, and cashier, a board room, two recitation rooms for the use of the military and mathematical departments, and the private office of the professor of mathematics; the second floor contains the university chapel, with a large pipe organ in the choir gallery. In the basement under the drill hall are the private offices of the military instructor and the physical director, the baseball cage, bowling alleys, lockers, lavatories, rooms for storage, etc. The dimensions of the drill hall and gymnasium are 100 by 62 feet. This room is encircled by a 9-foot running track suspended from the roof. As a gymnasium it is equipped with complete apparatus of the most approved kind.

THE OBSERVATORY.—The astronomical observatory stands upon a slight elevation to the east of Coburn Hall. The equatorial room is equipped with an eight-inch refractor of the best modern construction, with finding circles, driving-clock, filar micrometer and other accessories. In the transit-room is a Repsold vertical circle of two-inch aperture. These instruments, together with sextants, sidereal chronometer, etc., furnish excellent facilities for instruction in both descriptive and practical astronomy.

THE MACHINE SHOP.—In the rear of Fernald Hall is the machine shop, a wooden building 125 feet long and two stories high, containing the foundry, forge shop, carpenter shop, machine shop and tool room. The building is thoroughly equipped. An adjoining building, 30 by 71 feet, contains two boilers, of one hundred and fifty, and one hundred horse power, respectively, a

fifty horse power Corliss engine, a fifteen horse power Otto gasoline engine, and the dynamos and storage battery, which comprise the lighting plant. Students in the Electrical Engineering Course receive instruction in the care and running of this equipment.

THE EXPERIMENT STATION BUILDING.—South of Alumni Hall stands a two-story brick building with basement, which is occupied by the Agricultural Experiment Station. In the basement are rooms for the storage and preparation of samples for analysis, the calorimeter room, and the boiler room. On the ground floor are the chemists' office, the laboratories used in the analysis of foods and feeding stuffs, the nitrogen room, and the laboratory used in the analysis of fertilizers. On the second floor are the general office, the director's office, the bacteriological laboratory, the journal room, and a storage room for books and pamphlets. The building is heated by steam, supplied with gas and electricity, and thoroughly equipped with apparatus.

THE HORTICULTURAL BUILDING.—East of the Experiment Station is the Horticultural Building, consisting of a head-house and three greenhouses. In the head-house are the office of the professor of horticulture, a work room, a seed storage room, a photographing room, the janitor's room, and a room used for storage. The main greenhouse, 20 feet by 100 feet, is devoted to the use of the Experiment Station, and to the instruction of students. A second structure, 20 feet by 80 feet, running parallel to the main greenhouse, is divided, one-half being used for growing plants, and the remainder as a potting and storage room. The third greenhouse is designed for investigations in plant nutrition. In the south end of this house is the conservatory.

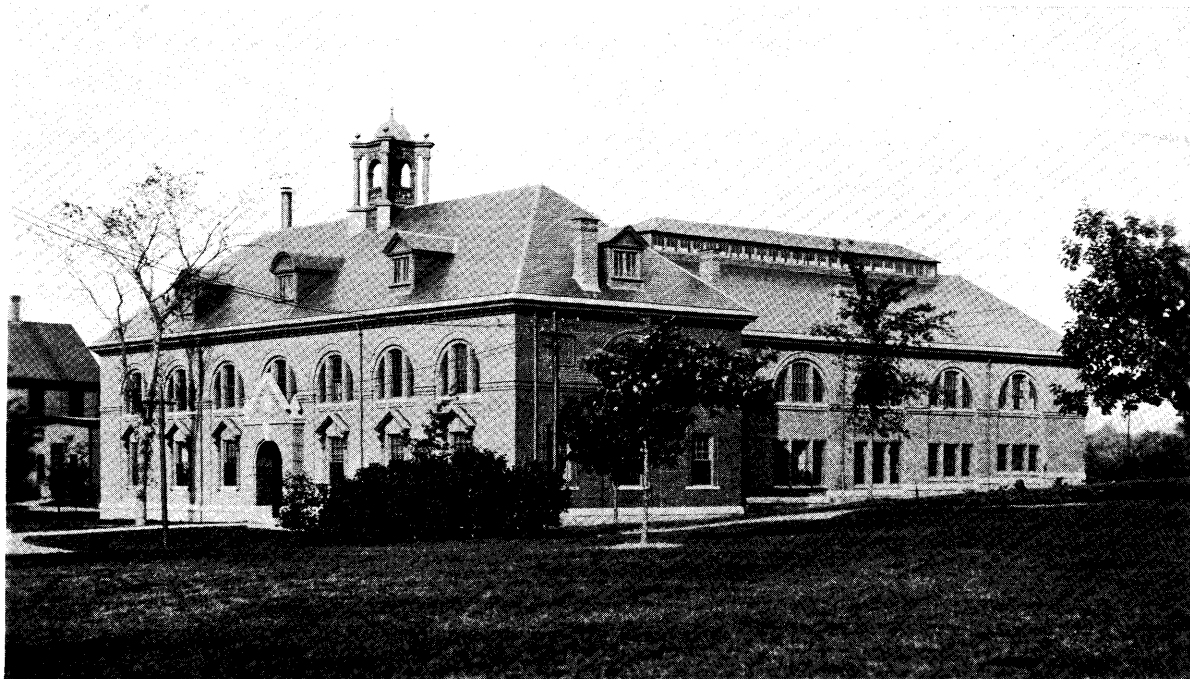
THE DAIRY BUILDING.—The Dairy Building, 50 feet by 42 feet, contains a milk room, a butter room, a cheese room, a cold storage room, a cheese curing room, a lecture room, the office of the professor of animal industry, and a laboratory. It is supplied with all necessary appliances for teaching the most approved methods of handling milk, cream, butter, and cheese. The building is heated with steam and supplied with hot and cold water. Power is furnished by a six horse power engine.

THE MT. VERNON HOUSE.—This is a wooden building, completed in 1898, to furnish dormitory accommodations for women. It is situated near the recitation and laboratory buildings, upon a site overlooking the campus, and commanding a magnificent view of the river, villages, and mountains. It is two stories in height, built in the old colonial style and consists of a long central portion and two wings. It contains a parlor, dining room, kitchen, bath room, and sixteen study rooms, each intended for two students. The rooms are large, well lighted, heated by a combined system of hot air and hot water, and provided with electric lights from the university plant. A special feature is the long hall on each floor, extending sixty-six feet upon the front of the building, and wide enough to serve as an assembly or study room. The building, and the students who live in it, are under the supervision of a competent matron.

THE FRATERNITY HOUSES.—Four of the student fraternities occupy club houses. Three of the houses are on the campus, and one in the village of Orono. They are large, well arranged houses, affording rooms for about twenty-five students each. Several of the fraternities maintain their own boarding establishments under the supervision of matrons.

THE ART MUSEUM.—The collection of casts, framed pictures, photographs, and engravings belonging to the University Guild has recently been given new quarters in the frame building formerly used as a gymnasium. During the summer of 1901 this building was moved to a point a little northeast of Wingate Hall, and remodeled at an expense of several hundred dollars. Its main room for exhibition purposes measures 30x40 feet, and contains nearly a thousand dollars worth of apparatus of illustrative value in connection with the lectures on the history of art, which are now given here.

OTHER BUILDINGS.—In addition to the buildings already described, there are six others devoted to various purposes. Among these are the President's house, the Commons or general boarding house, and three residences occupied by members of the faculty.



ALUMNI HALL

THE ATHLETIC FIELD.—Alumni Field, so called because funds required for its construction were contributed by the Alumni Association, is located at the northwestern extremity of the campus, about 1,200 feet from the Gymnasium. It contains a quarter-mile cinder track, with a 220 yards straightaway, and is graded and laid out for foot ball, base ball, and field athletics.

THE LIBRARY

The library is located in Coburn Hall. It contains over twenty-one thousand bound volumes and eight thousand pamphlets. Some fifteen hundred volumes of special value to the Experiment Station are kept in the Station building; and nearly three thousand law books, in the School of Law. Reference libraries in departmental rooms are maintained by those departments which require them.

Nearly half of the volumes in the library have been added within the last four years, the accessions having averaged more than twenty-five hundred annually during this period; the greater part of these have been acquired by purchase, and in large part have been selected by the heads of departments with particular reference to making the collections of the greatest working value. The time and manner of the selection and purchase of the books result in a particularly useful collection.

The library is classified according to the Dewey system, slightly modified; there is a card catalogue, author and subject; access to the shelves is entirely unrestricted. Students may borrow two volumes at a time, to be retained two weeks, when they may be renewed unless previously called for; special permission to borrow a larger number may be obtained, when necessary, upon application to the librarian; there is a fine of two cents a day for books kept over time. Officers and alumni of the University may borrow any reasonable number of volumes without time limit, except that all books must be returned at least nine days before Commencement, and the return of any volume may be required

at any time by the library committee. Other responsible persons may obtain the privileges of the library upon application to the librarian. The librarian and his assistants are glad to give advice and assistance at any time.

The library is a designated depository for the publications of the United States Congress, and also receives publications of different departments not included in the depository set. All the publications of the State of Maine are received. Over three hundred and fifty of the most important literary, scientific and technical periodicals, both American and foreign, are regularly received. The leading papers of Maine, together with a selected list of daily papers published in the large cities, are on file.

The library is open daily from 8 A. M. to 12.00 M., and from 1.30 to 5.30 P. M., Sundays and legal holidays excepted.

MUSEUM AND HERBARIUM

The museum is located in the wing of Coburn Hall. The mineral cabinet embraces a general collection of three hundred species of the more common minerals, a collection of economic minerals furnished by the National Museum, an educational series of rocks, from the U. S. Geological Survey, and a collection of the more important fragmental, crystalline, and volcanic rocks.

There is a small collection of plant and animal fossils, a set of type exotic mammals, a number of the larger mammals of the State, and working collections of the lower group of both vertebrate and invertebrate animals.

The herbarium comprises the original collection of Maine plants of about 500 species; the new collection of Maine plants of 800 species; the Blake herbarium of 7,000 species, including phænogams and cryptogams; Ellis and Everhard's North American Fungi, comprising thirty-five centuries; Halsted's Lichens of New England; Underwood's Hepaticæ; Cummings and Seymour's North American Lichens; Cook's Illustrative Fungi; Collins's Algæ of the Maine Coast; a collection of illustrative

cryptogams in boxes; Harvey's Weeds and Forage Plants of Maine, 300 species; Halsted's Weeds; a collection of grasses and forage plants of 400 species; a collection of United States woods prepared by the United States Department of Agriculture; a collection of seeds and fruits.

ORGANIZATIONS

FRATERNITIES.—The following fraternities are represented in the University: $\Phi \Gamma \Delta$, $B \Theta \Pi$, $K \Sigma$, $A T \Omega$, $\Phi K \Sigma$, $\Sigma A E$, ΔP , $\Phi \Gamma$ (for women).

ASSOCIATIONS.—The following is a list of other organizations existing in the University: Scientific Association, Philological Club, French Club, University Guild, Debating Society, Electrical Society, Honorary Society (Phi Kappa Phi), Young Men's Christian Association, Athletic Association, Press Club, Glee Club, Instrumental Club, Band, Photographic Society.

THE SCIENTIFIC ASSOCIATION.—The Scientific Association was organized to promote interest in scientific study and investigation in various departments. It holds a general meeting once a month, and is divided into four groups, each of which has its own stated meetings. Papers describing original work, and those of a more popular nature, are presented from time to time.

THE PHILOLOGICAL CLUB.—The Philological Club meets on the first Monday evening of each month except January, during the academic year, for the presentation and discussion of original papers on philological and literary subjects.

THE UNIVERSITY GUILD.—The University Guild has for its object the building up of an art collection, and the promotion of a general interest, among the faculty, students, and friends of the University, in the study of the fine arts. The Guild occupies the new Art Museum and holds four regular meetings during the

year. As rapidly as funds permit, casts and photographs of celebrated works of art are being added to the collection already begun.

The course in the history of Italian painting is open to members of the Guild.

PHI KAPPA PHI.—The Phi Kappa Phi is an honorary society. At the end of the fall term of the senior year the five members of the class having the highest standing are elected members, and at the end of the year the five next highest are added.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.—The Young Men's Christian Association, composed of students, has for its object the promotion of Christian fellowship and aggressive Christian work.

UNIVERSITY PUBLICATIONS

THE ANNUAL CATALOGUE OF THE UNIVERSITY OF MAINE.—This contains descriptions of the courses of study, lists of the trustees, faculty, and students, and other information relating to the University.

THE SHORT CATALOGUE OF THE UNIVERSITY OF MAINE.—This is an abbreviated form of the catalogue.

THE ANNUAL REPORT OF THE TRUSTEES, PRESIDENT, AND TREASURER, TO THE GOVERNOR AND COUNCIL OF THE STATE.—The reports of the trustees and president include an account of the general affairs and interests of the University for the year, and the reports of the Experiment Station. The report for the odd years contains the biennial catalogue of graduates.

THE UNIVERSITY OF MAINE STUDIES.—These are occasional publications containing reports of investigations or researches made by university officers or alumni.

THE UNIVERSITY CIRCULARS.—These are occasional pamphlets, issued for special purposes. Those now ready for distribution relate to: the Classical and Latin-Scientific Courses; the Courses in Agriculture; the Courses in Pharmacy; the School of Law; the Courses in Engineering; Student Expenses.

THE MAINE BULLETIN.—This is a small publication issued several times each year by the University, to give information to the alumni.

THE ANNUAL REPORT OF THE EXPERIMENT STATION.—This is Part II of the Annual Report of the University.

THE EXPERIMENT STATION BULLETINS.—These are popular accounts of the results of station work which relate directly to farm practice.

THE CAMPUS.—This is a journal published semi-monthly during the university year by an association of the students.

THE PRISM.—This is an illustrated annual, published by the junior class.

MILITARY INSTRUCTION

Military instruction is required by law. The department is under the charge of an officer of the regular army, detailed by the President of the United States for this purpose. Cadet rifles, ammunition, and accoutrements are furnished by the War Department. The course has special reference to the duties of officers of the line. The students are organized into an infantry battalion of three companies, a band, and a signal corps, officered by cadets selected for character, soldierly bearing, and military efficiency. The corps is instructed and disciplined in accordance with rules established by the President of the United States.

The uniform prescribed by the board of trustees is as follows:

For cadets, a dark blue blouse, cut military academy style, braided with black braid and without other ornament than the word MAINE embroidered in gold on each side of the collar; light blue trousers with dark stripe and blue cap, army regulation style, with cross rifles and the letters U. M. embroidered in gold on the front. For commissioned officers, the regulation fatigue uniform prescribed for infantry officers of the United States Army; for non-commissioned officers, the same uniform as for cadets, with the addition of gilt chevrons on arms of blouse. The total cost of uniforms for all ranks is \$13.70. The uniforms are procured through an authorized tailor, and are made in the best manner of thoroughly good material. Cadets are required to wear the uniform when on military duty, and may wear the same at other times, provided the complete uniform is worn.

The three seniors who attain the highest standing in the military department are reported to the Adjutant General of the U. S. Army, and their names are printed in the U. S. Army Register. Cadets who have satisfactorily completed the course in military science receive at graduation a certificate of military proficiency and are reported to the Adjutant General of Maine.

Service in the military department is optional for members of the senior class that have not received appointments as officers.

PHYSICAL TRAINING

The new gymnasium, completed in the spring of 1901, affords unexcelled opportunities for physical training and in-door athletics.

On the first floor are the baseball cage and bowling alley, lockers, baths and toilet rooms for the accommodation of three hundred and seventy-five students, with space to enlarge these accommodations when necessary.

The gymnasium proper is on the second floor, which has a floor space of 6,550 square feet, with a running track overhead. This main room of the gymnasium is equipped with a large variety of light and heavy gymnastic apparatus and many of the best patterns of modern developing appliances.

Gymnasium work consisting of drills with Indian clubs, dumb-bells, wands and bar-bells, also exercises on the heavy apparatus, and gymnasium games, is required of freshmen and sophomores from November 15th to April 15th.

Beginning with the fall of 1902, a physical examination of each student will be made, together with measurements and strength tests. From the data thus procured special exercises will be prescribed with a view to the systematic development of the entire physical system.

PUBLIC WORSHIP

Religious services of a simple character are held in the chapel every day except Saturday and Sunday. All undergraduate students are required to be present. Students receive a cordial welcome at all services in the churches of the village. Voluntary religious services, under the direction of the Young Men's Christian Association, are held weekly.

GENERAL REGULATIONS

The regulations in regard to the selection of studies, standings and grades, absences from recitation and examinations, rhetorical exercises, entrance conditions, leave of absence, attendance upon chapel, penalties, examinations, and athletics, are printed in a small pamphlet, which may be obtained from the secretary.

By these regulations, the quota of regular studies for each student varies from a minimum of fifteen hours, to a maximum of twenty hours of class room work each week. In the application of this rule, two hours of laboratory work, or of other exercises not requiring preparation, count as one hour.

Excuses for absence from individual exercises are not required. Each student is expected to be present at all recitations and other exercises except when imperative reasons require absence. Of

these reasons he is the judge, but a student who is absent from ten per cent. or more of the exercises in any study is not admitted to the final examination. A student who fails to pass at an examination, is absent from an examination, or is excluded from an examination, may make up his deficiency at the special examinations held at the times noted in the calendar. The arrearage examinations during the Christmas recess include only studies of the spring term; the examinations during the Easter recess include only studies of the fall term; the examinations at the beginning of the fall term include studies of the whole year. A student who fails to make up an arrearage before the study is again taken in class is required to attend recitations in that study.

Each student is given a report of his work shortly after the close of each term. Parents or guardians may obtain these reports upon application to the secretary.

SCHOLARSHIP HONORS

Honors for scholarship are of two kinds, general and special. General honors are awarded, at graduation, to students who attain an average standing, after the freshman year, of ninety on a scale of one hundred. Special honors are granted for the satisfactory completion of an honor course in addition to the work required for a degree. An honor course must involve at least ninety recitations or an equivalent. The methods of work are determined by the instructor. The list of honor courses, with full description, is published by the secretary of the faculty four weeks before Commencement. Honor courses are open to juniors and seniors who have attained an average standing of eighty per cent. in all previous work, and an average standing of ninety per cent. in the previous work of the department in which the honors are sought. A student cannot register for an honor course without the consent of the faculty, nor later than the fourth week of the fall term. Upon completion of a course, the student's work will be tested by an examination or thesis, or both, under the direction of the faculty committee on honor

courses; and the result, together with the instructor's report, will be laid before the faculty. The faculty may grant special honors to those students who receive the approval of the committee, but will not do so if the general work is unsatisfactory. Honors, and their nature, are stated upon the Commencement program and published in the annual catalogue.

DEGREES

The degree of Bachelor of Arts (B. A.) is conferred upon students that complete the Classical Course.

The degree of Bachelor of Philosophy (B. Ph.) is conferred upon students that complete the Latin-Scientific Course.

The degree of Bachelor of Science (B. S.) is conferred upon students that complete the Scientific, Chemical, Preparatory Medical, Agricultural, Civil Engineering, Mechanical Engineering, Electrical Engineering, or Pharmacy Course. The diploma indicates which course has been completed.

The degree of Pharmaceutical Chemist (Ph. C.) is conferred upon students that complete the Short Pharmacy Course.

The degree of Bachelor of Laws (LL. B.) is conferred upon students that complete the Law Course.

ADVANCED DEGREES

For receiving an advanced degree the required preparation must include the attainment of the proper first degree.

The Master's degrees, viz., Master of Arts (M. A.), Master of Philosophy (M. Ph.), Master of Science (M. S.), and Master of Laws (LL. M.), are conferred upon holders of the corresponding Bachelor's degrees under either of the following conditions:

(1) One year's work in residence, including examinations on a prescribed course of study, and the presentation of a satisfactory thesis. The course for each candidate must be approved by the committee on advanced degrees not later than the first week in October. A registration fee of \$10.00 is charged.

(2) Two years' work in absence, with examinations at the University, the other conditions as in (1).

The professional degrees of Civil Engineer (C. E.), Mechanical Engineer (M. E.), and Electrical Engineer (E. E.), may be conferred upon graduates of the Civil Engineering, Mechanical Engineering, and Electrical Engineering Courses respectively on the presentation of a satisfactory thesis after at least three years of professional work subsequent to graduation.

STUDENT EXPENSES

Many students go through college with an annual expenditure of little more than \$200, exclusive of the expense of clothing, traveling and vacations, and very many earn a part of this sum by vacation work. An estimate of the necessary annual expenses of a student in any department, except the School of Law, may be made from the following table. For the expenses of students in the School of Law reference is made to the article on that School. It should be noticed that clothing, traveling, and vacation, society and personal expenses are not included in the table. These vary according to individual tastes and habits. The table is made up for men students who room in Oak Hall, and board at the Commons. The necessary expenses of other students are sometimes lower, but usually slightly higher. In all cases an allowance must be made for personal incidental expenses. The expenses of the first year are higher than those of later years.

ANNUAL STUDENT EXPENSES

Tuition, 2 terms at \$15.00,.....	\$30 00
Registration fee, 2 terms at \$5.00,.....	10 00
Incidentals, 2 terms at \$10.00,.....	20 00
Laboratory fees, average, about,.....	8 00
Text-books, about,.....	15 00
Board, 34 weeks at \$3.00,.....	102 00
Heat and light for half room, and general care of dormitory, about,.....	15 00
Total,	\$200 00

The tuition charge is \$15.00 a term, or \$30.00 a year, and all students are subject to this charge except those in the short winter courses in agriculture, for which no tuition charge is made. Residents of Maine who need assistance and maintain a good record may obtain, from the University, loans to cover the tuition charge. The regulations in regard to these loans are stated in the article on loans.

The registration fee of \$5.00 must be paid at the beginning of each term before the student enters any classes.

The incidental fee is \$10.00 a term, or \$20.00 a year, and covers heat and light for public buildings, reading-room charges, care of public rooms, and miscellaneous expenses.

The cost of text-books will average about \$15.00 a year for the course. These may be bought from the librarian at cost, but must be paid for on delivery. The expense may be decreased by buying second-hand books and selling them after using them.

Students in the laboratories and shops pay certain charges to cover the cost of materials and maintenance. These charges are as follows:—botany, per term, \$1.00; chemistry, per term, about \$3.00; bacteriology, per course, \$3.00; physics, per course, \$2.00 to \$4.00; pharmacy, per term, about \$3.50; mineralogy, \$2.00; biology, per course, \$2.00; electrical engineering, per course, \$2.50; mechanical engineering, per course, \$5.00. Laboratory charges in the civil engineering course are very few, but traveling expenses incurred in visiting engineering works will be nearly equivalent to the laboratory expenses of other courses.

The largest item of expense is for board. At the Commons, the university boarding house, each student pays his share of the cost, varying from \$2.75 to \$3.00 a week. Board may be obtained in clubs or private families at prices ranging from \$2.50 to \$3.25 a week.

Rooms in Oak Hall, the men's dormitory, are free; but, students supply their own furniture, and pay for heat and light, for the lighting and care of the halls and public rooms of the dormitory, and for damages. These charges, exclusive of furniture, may be expected to be about \$15.00 a year for each student, when two occupy a room. Furnished rooms, with light and heat, may be obtained in the village for \$1.50 a week if occupied by one person, or \$2.00 a week if occupied by two persons.

Women students that do not live at their own homes are required to room and board at the Mt. Vernon House. The price of board is \$3.00 a week. No charge is made for the rent of rooms; but students provide their own furniture, take care of their rooms, pay for the heat and light of their rooms, and for the heat, light and care of the halls and public rooms. These items are all provided at cost. Students are charged for all damages done to university property or to that of other students.

Each student is required to deposit with the treasurer a bond, with two good names as sureties, in the amount of \$150.00, to cover term bills. Blanks on which bonds should be made out will be furnished by the secretary upon application. Those who keep a sufficient deposit with the treasurer to cover the bills of one term will not be required to furnish a bond. The deposit required is \$90.00 from those who board at the Commons or Mt. Vernon House, and \$30.00 from others. No student will be graduated who is in debt to the treasury.

A circular containing a fuller statement in regard to expenses, and treating of the opportunities for self-help, may be obtained upon application.

LOANS

TUITION LOANS

Residents of Maine that need assistance and maintain a satisfactory record may borrow from the university treasury a sum sufficient to pay the tuition charge. This privilege is not extended to students in the School of Law.

Borrowers are required to give endorsed notes or other satisfactory security. The loans bear interest at six per cent. per annum, and are due \$30.00 a year, beginning with the first year after graduation, but may be paid earlier. No member of the faculty is accepted as an endorser.

Loans are granted by a committee consisting of the president and two other members of the faculty. The number of loans may not exceed one-third of the number of students in the undergraduate departments. Loans are granted to cover the tuition charges of one year at a time.

The first grant of loans for each university year is made in June preceding. Applications for loans are considered during May, and to insure attention at this time should be forwarded to the President not later than May 15. A second award is made in the fall term. Applications should be made not later than October 10. They must be made to the President upon blanks to be obtained from the Secretary of the faculty. Awards made in June may be withdrawn from students who do not register, or claim their loans, by October 10.

THE KITTREDGE LOAN FUND

This fund, amounting to nearly one thousand dollars, was established by Nehemiah Kittredge of Bangor. It is in the control of the president and treasurer of the University, by whom it is loaned to needy students. In the deed of gift it was prescribed that no security but personal notes bearing interest at the prevailing rate should be required. Loans are made on the conditions that the interest shall be paid promptly, and that the principal shall be returned from the first earnings after graduation.

SCHOLARSHIPS AND PRIZES

THE KIDDER SCHOLARSHIP.—The Kidder Scholarship was endowed by Frank E. Kidder, Ph. D., Denver, Colorado, a graduate of the University in the class of 1879, to be awarded to a member of the junior class to be selected by the President and the Faculty.

THE JUNIOR EXHIBITION PRIZE will be awarded to that member of the junior class who shall present the best oration at the junior exhibition. In the award of this prize both the composition and the delivery of the oration will be considered.

THE SOPHOMORE DECLAMATION PRIZE, for excellence in elocution, will be awarded to the best speaker in the sophomore class.

THE LIBBEY PRIZE, the gift of the Hon. Samuel Libbey, Orono, will be awarded to the student who shall present the best essay upon an agricultural topic. The essays must be handed to the professor of agriculture on or before the first Monday in June.

THE WALTER VALENTINE PRIZE, the gift of Whitman H. Jordan, Sc. D., Geneva, N. Y., a graduate of the University in the class of 1875, will be awarded to that member of the junior class who shall excel in biological chemistry.

THE KENNEBEC COUNTY PRIZE, the gift of the Hon William T. Haines, Waterville, a graduate of the University in the class of 1876, will be awarded to that member of the senior class who shall write the best essay on applied electricity.

THE FRANKLIN DANFORTH PRIZE, the gift of the Hon. Edward F. Danforth, Skowhegan, a graduate of the University in the class of 1877, in memory of his father, Franklin Danforth, will be awarded to that member of the senior class in the agricultural course who shall attain the highest standing.

THE PHARMACY PRIZE will be awarded to that student in the Pharmacy Department who shall attain the highest standing in chemistry in the last year of his course.

THE AMERICAN SCHOOL IN ROME

Graduates of this University, which is one of the institutions co-operating with the American School of Classical Studies in Rome, are entitled to free tuition in that school. The school awards annually to Bachelors of Arts, chiefly on the basis of competitive examination, two fellowships in Roman Classical Archæology, each with a stipend of \$600.00, and one in Christian Archæology, with a stipend of \$500.00.

ADMISSION

Applicants for admission must pass the required examinations, or present satisfactory certificates of fitness, and file with the Treasurer a bond for \$150 signed by two bondsmen, as security for the payment of term bills. A cash deposit covering the bills of one term will be accepted in place of a bond. In the School of Law the fees must be paid in advance, and no bond or deposit is required. The University admits men and women, both residents of Maine and non-residents.

Candidates for advanced standing are examined in the preparatory studies, and in those previously pursued by the classes they propose to enter, or in other equivalent studies. Certificates from approved schools are accepted for the preparatory work, but not for any part of the college work, unless done in a college. A student who has accomplished half of the preparatory course may be examined on that part, and receive credit therefor.

The attention of students preparing for the entrance examinations is called to the need of careful work in mathematics. A good preparation in algebra and geometry is most important for those who expect to enter engineering courses. The schools should give a part of the work in algebra and geometry, or a review of these subjects, during the last year.

Students preparing for the Classical or Latin-Scientific courses should devote special attention to Latin composition, Roman history, and constant practice in pronouncing Latin according to the Roman method.

Persons, not candidates for a degree, who wish to take special studies, may be permitted to do so upon giving satisfactory evidence that they are prepared to take the desired studies. If they subsequently desire to become candidates for a degree, or to take a regular course, they will be required to pass the entrance examinations.

No examinations are required for admission to the short winter courses.

College graduates who wish to enter a technical course are admitted to the junior class without examination. Students in general college courses, who expect to pursue technical courses after graduation, should avail themselves of opportunities for the study of mathematics, physics, chemistry, and drawing, as a preparation for engineering courses; and of physics, chemistry, and drawing, for chemical and biological courses.

ADMISSION TO THE SCHOOL OF LAW

Graduates of a college, or of a preparatory school of good standing, are admitted without examination. Other applicants must give satisfactory evidence of the necessary qualifications. These are fixed in each case on a consideration of its merits.

Students from other law schools of good standing are admitted to the appropriate classes in this school upon certificate. Students from law offices are admitted to advanced standing after passing a satisfactory examination upon the earlier subjects of the course. Members of the bar of any State are admitted to the senior class without examination.

Special students, not candidates for a degree, are admitted without examination.

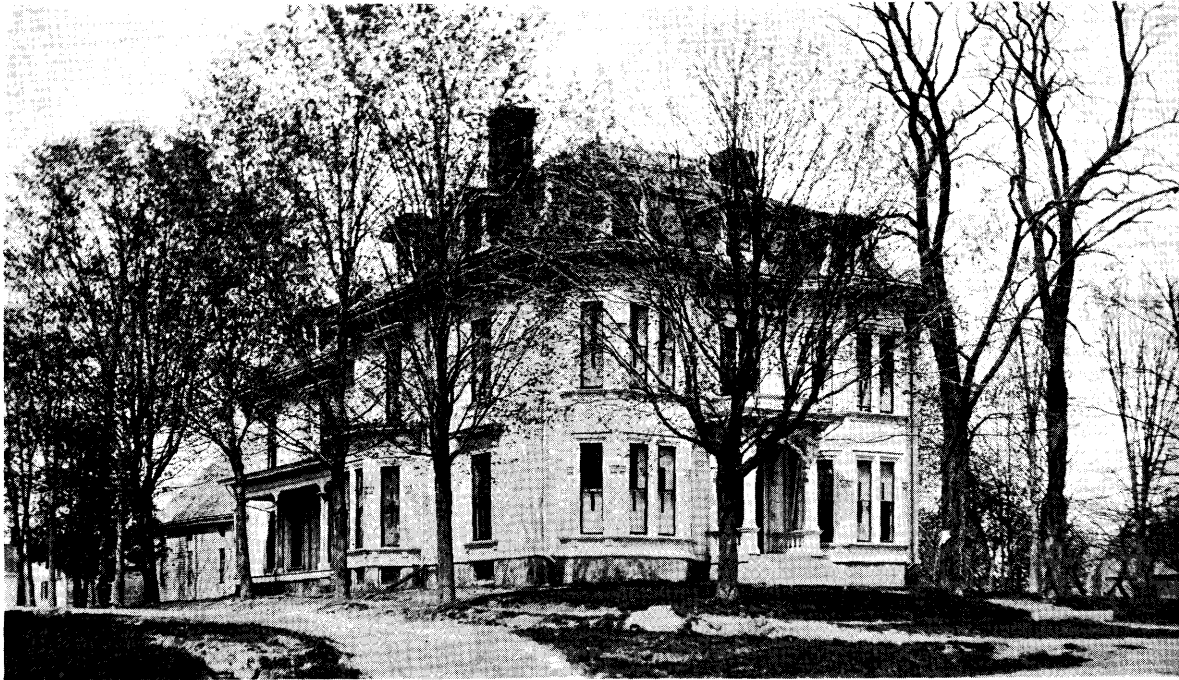
ENTRANCE EXAMINATIONS

Examinations are held at Orono, beginning two days before the opening of the fall term, and on the day after Commencement. To save expense to candidates, examination papers will be sent to any satisfactory person who will consent to conduct examinations on these days. The questions are to be submitted under the usual restrictions of a written examination, and the answers returned to the University accompanied by the indorsement of the examiner. Applications for such examinations must be made out on blanks to be obtained from the secretary of the faculty.

Candidates for the CLASSICAL COURSE are examined on—*Language*, English, Latin, Greek, and either French or German; *History*, Roman, Greek; *Mathematics*, Plane Geometry, Algebra.

Candidates for the LATIN-SCIENTIFIC COURSE are examined on—*Language*, English, Latin, and either French or German; *History*, Roman; *Mathematics*, Plane Geometry, Algebra.

Candidates for the SCIENTIFIC COURSE are examined on—*Language*, English, and one year of a foreign language, either ancient or modern; *History*, One of the following,—General, Roman, Greek, English; *Mathematics*, Plane Geometry, Alge-



A FRATERNITY HOUSE

bra; *Science*, Two of the following,—Botany, Chemistry, Physical Geography, Physics.

Candidates for the CHEMICAL, AGRICULTURAL (four years), PREPARATORY MEDICAL, AND PHARMACY (four years) COURSES are examined on—*Language*, English, and one year of a foreign language, either ancient or modern; *Mathematics*, Plane Geometry, Algebra; *Science*, Two of the following,—Botany, Chemistry, Physical Geography, Physics.

Candidates for the CIVIL ENGINEERING, MECHANICAL ENGINEERING, AND ELECTRICAL ENGINEERING COURSES are examined on—*Language*, English, and one year of a foreign language, either ancient or modern; *Mathematics*, Plane and Solid Geometry, Algebra; *Science*, Two of the following,—Botany, Chemistry, Physical Geography, Physics.

Candidates for SHORT COURSES IN AGRICULTURE (one year or more) are examined on—*Elementary Subjects*, Arithmetic, English Grammar, Physiology; *Language*, English; *History*, United States; *Mathematics*, Algebra through simple equations of the first degree; *Science*, One of the following,—Botany, Chemistry, Physical Geography, Physics.

Candidates for the SHORT COURSE IN PHARMACY (two years) are examined on—*Elementary Subjects*, Descriptive Geography, Arithmetic, English Grammar, Physiology; *History*, United States; *Mathematics*, Algebra through simple equations of the first degree.

SUBSTITUTES.—One year of Latin will be accepted as a substitute for any one of the following groups: (a) Geography, Arithmetic, English Grammar, and Physiology; (b) French or German; (c) One science.

One year of French or German will be accepted as a substitute for either of the following groups: (a) Geography, Arithmetic, English Grammar, Physiology; (b) One science.

Other equivalents will be accepted for any of the requirements except Mathematics, Latin, or Greek.

In consideration of the recent addition of one year of a foreign language, and of solid geometry, to the requirements, students who are not able to offer these subjects, but are otherwise prepared, will be admitted without them, and allowed to make them up after admission. This privilege will be withdrawn after 1902.

For the requirements for admission to the School of Law, see the article on the School of Law, page 116.

ENTRANCE REQUIREMENTS

The stars indicate the studies required.

For requirements of the School of Law see page 116.

COLLEGE OF	ARTS AND SCIENCES					AGRICUL- TURE	ENGINEER- ING			PHAR- MACY		
	Classical	Latin Scientific	Scientific	Chemical	Preparatory Medical	Four years	Special	Civil	Mechanical	Electrical	Four years	Two years
<i>Language:</i>												
English	*	*	*	*	*	*	*b	*	*	*	*	*b
French	*c	*c	} *d	*d	*d	*d	.....	*d	*d	*d	*d	.....
German												
Latin												
Greek	*	*										
<i>History:</i>												
United States							*					*
General			} *e									
Roman	*	*										
Greek	*											
English												
<i>Mathematics:</i>												
Plane Geometry....	*	*	*	*	*	*	.....	*	*	*	*	.....
Solid Geometry....								*f	*f	*f	.....	.....
Algebra	*	*	*	*	*	*	*g	*	*	*	*	*g
<i>Science: a</i>												
Botany			} *h	*h	*h	*h	*i	*h	*h	*h	*h	*h
Chemistry												
Physical Geog....												
Physics												
<i>Elementary: a</i>												
Geography.....												*
Arithmetic							*					*
Physiology							*					*

a—One year of a foreign language, ancient or modern, will be accepted as a substitute for all the elementary studies, or for one science. b—English grammar only. c—One year of French or German. d—One year of a foreign language, either ancient or modern. In consideration of the recent addition of this requirement, candidates who cannot satisfy it, but are otherwise well prepared, will be allowed to make it up as an extra study after admission. This privilege will be discontinued after 1902. e—One from general, Roman, Greek, or English history. f—See page 45. g—Through simple equations of the first degree only. h—Two sciences, from the list of four, are required. i—One science, from the list of four, is required.

ENTRANCE REQUIREMENTS

The following statements will show in detail the requirements in each subject.

LANGUAGE

ENGLISH.—*Grammar.* The usual school course. Attention should be given to punctuation and the use of capital letters.

Reading and Practice. Each candidate will be required to present evidence of a general knowledge of the substance of the books mentioned below and to answer simple questions on the lives of their authors. The examination will usually be the writing of one or two paragraphs on each of several topics. The treatment of these topics is designed to test the power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of this test the candidate may present an exercise book, certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

In 1902 this part of the examination will be based upon: Shakespeare's *Merchant of Venice*; Pope's *Iliad*, books I, VI, XXII, and XXIV; the *Sir Roger de Coverley Papers* in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

In 1903, 1904, and 1905, it will be based upon: Shakespeare's *Merchant of Venice* and *Julius Cæsar*; the *Sir Roger de Coverley Papers* in the *Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

Study and Practice. This part of the examination presupposes a careful study of the works named below. The examination will be upon subject-matter, form, and structure; and will also test the candidate's ability to express his knowledge with clearness and accuracy.

In 1902, this part of the examination will be based upon: Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

In 1903, 1904, and 1905, it will be based upon: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and on Addison*.

FRENCH.—A good elementary knowledge of grammar and composition; ability to read at sight easy prose. These requirements should be satisfied by one year's instruction of five periods per week in the preparatory school. Attention to correct pronunciation is strongly advised.

GERMAN.—A good elementary knowledge of grammar and composition; ability to read at sight easy prose. These requirements should be satisfied by one year's instruction of five periods per week in the preparatory school. Attention to correct pronunciation is strongly advised.

LATIN.—The grammar, including prosody; Cæsar's *Gallic War*, books I-IV; Cicero's four orations against Catiline, and those for Archias and for the Manilian Law; Vergil's *Eclogues* and the *Æneid*, books I-VI; the sight translation of Latin passages of moderate difficulty; the translation into Latin of simple English sentences, and of easy narrative passages based on the prose authors read. For the last, a vocabulary of unusual words will be furnished. Equivalent readings will be accepted for those prescribed.

GREEK.—The grammar, including prosody; Xenophon's *Anabasis*, books I-IV; Homer's *Iliad*, books I-III; the sight translation of easy passages from Xenophon; the translation into Greek of easy passages based on the required books of the *Anabasis*. For the last, a vocabulary of unusual words will be furnished. Equivalent readings will be accepted.

HISTORY

GENERAL HISTORY.—A knowledge such as may be obtained from Myers's *General History*.

ROMAN HISTORY.—A knowledge such as may be obtained from Allen's *Short History of the Roman People*, or from Myers's *Rome: Its Rise and Fall, to the death of Marcus Aurelius*.

GREEK HISTORY.—Pennell's, or Myers's, History of Greece, to the capture of Corinth, 146 B. C.

ENGLISH HISTORY.—A knowledge such as may be obtained from Montgomery's History of England.

UNITED STATES HISTORY.—A knowledge such as may be obtained from Higginson's History of the United States.

MATHEMATICS

PLANE GEOMETRY.—The first five books of Wells's, or of Wentworth's Geometry, or an equivalent. Numerical exercises, original propositions and the neat and careful construction of figures should not be neglected. The examination will include original propositions for demonstration or construction.

SOLID GEOMETRY.—Books VI-IX of Wells's, or books VI-VIII of Wentworth's Geometry, or an equivalent. The examination will be planned to test the candidate's ability to apply the theorems to the computation of surfaces and volumes, as well as his readiness in demonstration. Required only of candidates for the engineering courses.

As this is a new requirement, and is not taught in all preparatory schools, students who cannot offer it, but are otherwise well prepared, are allowed to take it as an extra study after admission. This privilege will be withdrawn after 1902.

ALGEBRA.—The elements, equations of the first degree, radicals, the theory of exponents, quadratic equations, ratio and proportion, arithmetical and geometrical progression, the binomial theorem. Candidates for special courses in agriculture or for the short course in pharmacy will be examined on no topics beyond simple equations of the first degree. A satisfactory preparation may be obtained from Newcomb's, Wells's Academic, or Wentworth's School Algebra.

SCIENCE

BOTANY.—An elementary course which will bring the student into contact with plants. Gray's Lessons in Botany, Spaulding's Introduction to Botany, or Bergen's Elements of Botany, will serve as a satisfactory guide.

CHEMISTRY.—The necessary ground is covered by the following text-books: Fisher, Remsen, Roscoe (inorganic part), Shepard, Storer and Lindsay, Williams.

PHYSICAL GEOGRAPHY.—A satisfactory preparation may be obtained from Appleton's Physical Geography.

PHYSICS.—A satisfactory treatment of this subject may be found in Avery's, or Gage's Physics.

ELEMENTARY SUBJECTS

DESCRIPTIVE GEOGRAPHY.—The usual school course. Required for short course in pharmacy only.

ARITHMETIC.—The usual school course, including the metric system of weights and measures. Required for the short courses only.

PHYSIOLOGY.—Cells and tissues, skeleton, muscles, blood and circulation, respiration, nutrition and digestion, lymphatic system, excretory organs, nervous system, special senses, hygiene. Required for the short courses only.

ADMISSION BY CERTIFICATE

Certificates for admission to the freshman class are accepted from graduates of approved schools, but will not be accepted from non-graduates except in extraordinary cases, and then only provided the candidate is expressly recommended for admission by the principal of the school from which he comes. Certificates must be made out on blanks furnished by the University.

Any preparatory school whose course of instruction covers in a satisfactory manner the requirements for admission may be placed upon the list of approved schools. Application for such approval should be made to the president of the University, and must be accompanied by a detailed statement of the course of study.

APPROVED SCHOOLS	PRINCIPAL
Athol (Mass.) High School,	F. C. Avery.
Bangor High School,	Henry K. White, M. A.
Bar Harbor High School,	Arthur M. Thomas, M. A.
Bath High School,	H. E. Cole, M. A.
Belfast High School,	W. R. Howard, B. S.
Bennington (Vt.) Academy,	W. S. C. Russell, M. A.
Berwick Academy, South Berwick,	F. Stanley Stebbins, B. A.
Biddeford High School,	Harry H. Burnham, M. A.
Boston (Mass.) English High School,	Robert Edward Babson, B. A.
Bowdoinham High School,	E. L. Palmer, B. A.
Boynton High School, Eastport,	Harry Edgar Bryant, B. A.
Brewer High School,	Harlan M. Bisbee, B. A.
Bridge Academy, Dresden Mills,	L. A. Bailey, M. A.
Bridgton Academy, North Bridgton,	C. C. Spratt, B. A.
Bridgton High School,	Charles Stone, B. A.
Bristol Academy, Taunton, Mass.,	Alfred B. Maggs, M. A.
Brunswick High School,	Charles Fish, M. A.

Calais High School,	Herbert S. Philbrick, M. A.
Caribou High School,	W. P. Hamilton, B. A.
Cherryfield Academy,	T. C. Tooker, M. A.
Coburn Classical Institute, Waterville,	F. W. Johnson, M. A.
Cony High School, Augusta,	C. F. Cook, B. A.
Cornish High School,	Stephen Rounds, B. A.
Corinna Union Academy,	W. Francis Miner, B. A.
Danforth High School,	W. L. Sanborn, B. A.
Deering High School,	William M. Marvin, B. A.
Dexter High School,	W. S. Brown, B. A.
East Corinth Academy,	Francis E. Russell, M. A.
East Maine Conference Seminary, Bucksport,	Simpson A. Bender, B. A., B. D.
Edward Little High School, Auburn,	J. F. Moody, M. A.
Ellsworth High School,	W. H. Dresser, B. A.
Farmington High School,	Charles M. Pennell, B. A.
Fort Fairfield High School,	F. C. Mitchell, B. S.
Foxcroft Academy,	Lyman K. Lee, B. A.
Framingham Academy and High School, Framingham Center, Mass.,	Alfred C. Fay, B. A.
Freeport High School,	Will O. Hersey, B. A.
Gardiner High School,	William L. Powers, M. A.
George Stevens Bluehill Academy, Bluehill,	Walter H. Russell, M. A.
Gorham High School,	Leon O. Glover.
Gould's Academy, Bethel,	F. E. Hanscom, M. A.
Greeley Institute, Cumberland Center,	Henry H. Randall, B. A.
Guilford High School,	George W. Snow, M. A.
Hallowell High School,	C. W. Stowell.
Hampden Academy,	Evangeline Taylor, B. A.
Hebron Academy,	W. E. Sargent, M. A.
Higgins Classical Institute, Charleston,	H. Warren Foss, B. A.
Hyde Park (Mass.) High School,	Merle S. Getchell, M. A.

Island Falls High School,	San Lorenzo Merriman, B. A.
Jordan High School, Lewiston,	John M. Nichols, M. A.
Leavitt Institute, Turner Center,	Leland A. Ross, B. A.
Limerick Academy,	William A. Hawthorne, B. A.
Limington Academy,	B. M. Clough, B. A.
Lincoln Academy, Newcastle,	George H. Larrabee, M. A.
Lisbon High School,	A. E. Linscott, B. A.
Lisbon Falls High School,	Leander H. Moulton, M. A.
Lubec High School,	Oscar C. Merrill, B. A.
Lynn (Mass.) English High School,	Charles S. Jackson, B. S.
Machias High School,	D. Lyman Wormwood, B. A.
Madison High School,	Thomas A. Roberts, B. A.
Maine Central Institute, Pittsfield,	F. U. Landman, B. A.
Maine Wesleyan Seminary and Female College, Kent's Hill,	Henry E. Trefethen, M. A.
Mechanic Falls High School,	Harry B. Walker, B. A.
Melrose (Mass.) High School,	William C. Whiting.
Monmouth Academy,	Arthur J. Chick, B. A.
Monson Academy,	W. S. Knowlton, M. A.
Northboro (Mass.) High School,	C. L. Judkins.
North Brookfield (Mass.) High School,	C. N. Perkins, M. A.
North Yarmouth Academy, Yarmouth,	Rev. B. P. Snow, M. A.
Norway High School,	Albert M. Rollins, B. A.
Norwell (Mass.) High School,	A. G. Catheron, B. A.
Oakland High School,	F. L. Tapley.
Oldtown High School,	Harry T. Watkins, B. A.
Orono High School,	Nathan R. Smith, B. A.
Orange (Mass.) High School,	Charles L. Curtis, B. A.
Palmer (Mass.) High School,	Fred Wilder Cross, B. A.
Parsonsfeld Seminary and Piper High School,	Frederick W. Ernst, M. A.
Patten Academy,	H. N. Gardner, B. A.
Pennell Institute, Gray,	C. W. Pierce, M. A.

Phillips Limerick Academy, Limerick,	William A. Harthorne, B. A.
Portland High School,	Albro E. Chase, B. A.
Plymouth (Mass.) High School,	George F. Kenney, B. A.
Presque Isle High School,	J. E. Roberts, B. A.
Richmond High School,	E. C. Megguire, M. A.
Ricker Classical Institute, Houlton,	Justin O. Wellman, B. A.
Rockland High School,	L. E. Moulton, B. A.
Rumford Falls High School,	Charles W. Cary.
Sanborn Seminary, Kingston, N. H.,	Z. Willis Kemp, Ph. D.
Skowhegan High School and Bloomfield Academy, Skowhegan,	William L. Bonney, M. A.
South Paris High School,	Hal. R. Eaton, B. A.
South Portland High School,	Simon M. Hamlin, B. A.
Thomaston High School,	Albert S. Cole, B. A.
Thornton Academy, Saco,	Edwin P. Sampson, M. A.
Warren High School,	Parker T. Pearson, B. A.
Washington Academy, E. Machias, A.	Sherman Harriman, B. A.
Waterville High School,	John E. Nelson, B. A.
Westbrook High School,	W. B. Andrews, M. A.
Westbrook Seminary, Deering,	O. H. Perry, B. A.
Whitefield (N. H.) High School,	William B. Noyes, B. A.
Wilton Academy,	Drew T. Harthorn, M. A.
Wiscasset Academy,	Charles S. Sewall, B. A.
Yarmouth High School,	Herbert M. Moore, B. A.

DEPARTMENTS OF INSTRUCTION

GREEK

PROFESSOR HUDDILSTON.

Gk 1. XENOPHON.—Hellenica, Books I-IV. Study of syntax, and daily exercises in writing Greek. *Four hours a week.* Fall term.

Gk 2. HOMER.—Odyssey, Books VI-X, and XII. The reading of the remaining books, in English translation, is required; assigned readings on the history of Greek poetry, "the Homeric question," and Homeric antiquities. *Four hours a week.* Spring term.

Gk 3. ATTIC ORATORS.—Some of the shorter orations of Demosthenes; selections from the minor Attic orators; parallel reading on the history of Greek prose literature, and the public economy and social life of Athens. *Five hours a fortnight.* Fall term.

Gk 4. GREEK TRAGEDY.—Euripides's Medea and Sophocles's Œdipus Rex; required reading on the history of the Greek tragic drama. *Five hours a fortnight.* Spring term.

Gk 5. THUCYDIDES.—Book I. Assigned reading in Herodotus, and a comparative study of the three great historians of Greece. *Five hours a fortnight.* Fall term. Open to those who have taken courses 1 and 3.

Gk 6. ARISTOPHANES.—The Clouds and the Knights; lectures and collateral reading on the development of Greek comedy. *Five hours a fortnight.* Spring term. Open to students who have taken courses 2 and 4.

Gk 7. PLATO.—Selected dialogues. Lectures on the history of Greek philosophy with special reference to Plato and Aristotle. *Five hours a fortnight.* Fall term. Open to those who have taken courses 3 and 5.

Gk 8. PINDAR.—The Olympian and Pythian Odes; parallel reading on the history of Greek lyric poetry. *Five hours a fortnight.* Spring term.

Gk 9. GREEK SCULPTURE.—Lectures, illustrated by photographs and lantern slides. This course does not presuppose a knowledge of Greek, but is intended to serve as a general introduction to Greek fine arts. The interdependence of the arts and their relation to the life of the Greeks, as well as their relation to the world's subsequent art, receives considerable attention. *Five hours a fortnight.* Given in the fall term of odd years.

Gk 10. GREEK SCULPTURE.—A continuation of course 9 with a more particular study of Greek architecture. *Five hours a fortnight.* Given in the spring term of even years.

Gk 11. NEW TESTAMENT GREEK.—This course is intended for those who have no acquaintance with ancient languages, and, with course 12, is expected to give considerable facility in reading the narrative portions of the Greek Testament. It neither takes the place of preparatory Greek, nor counts toward a degree in the Classical course. It is open to all students, but to freshmen only on permission by the instructor. *Five hours a fortnight.* Given in the fall term of even years.

Gk 12. NEW TESTAMENT GREEK.—A continuation of course 11. Reading of the Gospels of John and Matthew; syntax. *Five hours a fortnight.* Given in the spring term of odd years.

Gk 13. GREEK PRIVATE LIFE.—Lectures, illustrated with lantern slides and photographs. Assigned reading. *Five hours a fortnight.* Given in the fall term of even years.

Gk 14. GREEK RELIGION.—A study of the chief divinities in ancient Greek religion with special reference to the various types as shown in sculpture and vase-paintings. Lectures and assigned reading. *Five hours a fortnight.* Given in the spring term of odd years.

Gk 15. GREEK PROSE COMPOSITION.—A course in writing Greek, intended to continue the work begun in Gk 1. *One hour a week.* Spring term.

Gk 18. GREEK PROSE COMPOSITION.—An advanced course consisting of the translation into Greek of narrative and rhetorical passages. *One hour a week.* Fall term.

Gk 19. GREEK PROSE COMPOSITION.—A continuation of course 18. *One hour a week.* Spring term.

At 1. ITALIAN ART.—The revival of the fine arts in Italy, with special reference to the history of painting in Tuscany and Umbria during the early Renaissance. Lectures and collateral reading. The work is illustrated by a large and growing collection of photographs and casts. *One hour a week.* Given in the fall term of even years.

At 2. ITALIAN ART.—A continuation of course 1, dealing chiefly with the masters of the high Renaissance in Florence and Rome. *One hour a week.* Given in the spring term of odd years.

At 3. ITALIAN ART.—Painting in the north of Italy, and the culmination of the Italian Renaissance in the Venetian masters. Lectures and collateral reading. *One hour a week.* Given in the fall term of even years.

At 4. ITALIAN ART.—A continuation of course 3. *One hour a week.* Given in the spring term of even years.

LATIN

PROFESSOR HARRINGTON.

Lt 1. LIVY AND CICERO.—Livy, History of Rome, Books XXI and XII; Cicero, De Senectute; Latin composition based upon the authors read. *Four hours a week.* Fall term.

Lt 2. HORACE.—Selections from the Satires, Epistles, Epodes and Odes; classical mythology. *Four hours a week.* Spring term.

Lt 3. PLAUTUS AND TERENCE.—The *Captivi*, *Trinummus*, or *Menæchmi* of Plautus; the *Andria*, *Adelphœ*, or *Phormio* of Terence; lectures on the development of Roman comedy. *Five hours a fortnight.* Fall term.

Lt 4. CICERO AND TACITUS.—Selected letters of Cicero; the *Agricola* and *Germania* of Tacitus. *Five hours a fortnight.* Spring term.

Lt 5. PLINY AND TACITUS.—Selected letters of Pliny the younger; readings in the *Annals* of Tacitus; studies in Silver Latinity. *Five hours a fortnight.* Given in the fall term of odd years. Open to students that have taken courses 1-4.

Lt 6. ROMAN LYRIC POETRY.—Selections from Catullus, Horace, and the Latin hymns of the Christian church; original research. *Five hours a fortnight.* Given in the spring term of even years. Open to students that have taken courses 1-4.

Lt 7. THE ROMAN ELEGIAC POETS.—Selections from Catullus, Tibullus, Propertius, and Ovid; original research. *Five hours a fortnight.* Given in the fall term of even years. Open to students that have taken courses 1-4.

Lt 8. THE ROMAN ELEGIAC POETS.—A continuation of course 7. *Five hours a fortnight.* Given in the spring term of odd years.

Lt 9. ROMAN SATIRE.—Selections from Ennius, Lucilius, Varro, Horace, Persius, Juvenal, Petronius; original research. *Five hours a fortnight.* Given in the fall term of odd years. Open to students that have taken, or are taking, courses 5-6, or 7-8.

Lt 10. ROMAN SATIRE.—A continuation of course 9. *Five hours a fortnight.* Given in the spring term of even years.

Lt 11. ROMAN PHILOSOPHY.—Lucretius (selections); Cicero (selections from the *Academica*, *De Officiis*, *Tusculanæ Disputationes*, *De Finibus*, *De Natura Deorum*); Seneca (*De Pro-*

videntia, De Vita Beata); lectures on the history and development of ancient philosophy; original research. *Five hours a fortnight.* Given in the fall term of even years. Open to students that have taken, or are taking, courses 5-6, or 7-8.

Lt 12. ROMAN PHILOSOPHY.—A continuation of course 11. *Five hours a fortnight.* Given in the spring term of odd years.

Lt 13. ROMAN LITERATURE.—General introduction to the subject; illustrative class-room readings; a choice of one of five courses of collateral reading of Roman authors. *Five hours a fortnight.* Given in the fall term of even years. Open to students that have taken courses 1-4.

Lt 14. ROMAN LITERATURE.—A continuation of course 13. *Five hours a fortnight.* Given in the spring term of odd years.

Lt 15. ROMAN RHETORIC AND ORATORY.—Quintilian (selections from the *Institutio Oratoria*); Tacitus (*Dialogus de Oratoribus*); Cicero (selections from the *Brutus*, *De Oratore*, *Orator*); a study of sample orations of Cicero, and of some of the fragments of Roman oratory. *Five hours a fortnight.* Given in the fall term of odd years. Open to students that have taken courses 1-4.

Lt 16. ROMAN RHETORIC AND ORATORY.—A continuation of course 15. *Five hours a fortnight.* Given in the spring term of even years.

Lt 17. ROMAN TOPOGRAPHY.—Lectures on the development of the city of Rome and the present condition of its ancient ruins, preceded by a glance at the geography of the Italian peninsula. Illustrated by maps, photographs, and stereopticon views. *One hour a week.* Given in the fall term of even years. Open to students that have taken courses 1-4.

Lt 18. ROMAN PRIVATE LIFE.—Text-book work, supplemented by collateral reading and lectures upon some of the more important and interesting customs and institutions of Roman everyday life. *One hour a week.* Given in the spring term of odd years. Open to students that have taken courses 1-4.

Lt 19. LATIN WRITING.—Exercises in the translation of English into Latin with special reference to style. *One hour a week.* Given in the fall term of odd years. Open to students that have taken courses 1-4.

Lt 20. ROMAN EPIGRAPHY.—The principles of the science, and the interpretation of selected inscriptions. *One hour a week.* Given in the spring term of even years. Open to students that have taken courses 1-4.

ROMANCE LANGUAGES

PROFESSOR LEWIS; MR. HARRY.

Rm 1. FRENCH.—Elementary course. Fraser and Squairs Elementary French Grammar; Super, French Reader; Mérimée, Colomba; Halévy, L'Abbé Constantin; About, Le Roi des Montagnes. *Four hours a week.* Fall term. MR. HARRY.

Rm 2. FRENCH.—The continuation of course 1. *Four hours a week.* Spring term. MR. HARRY.

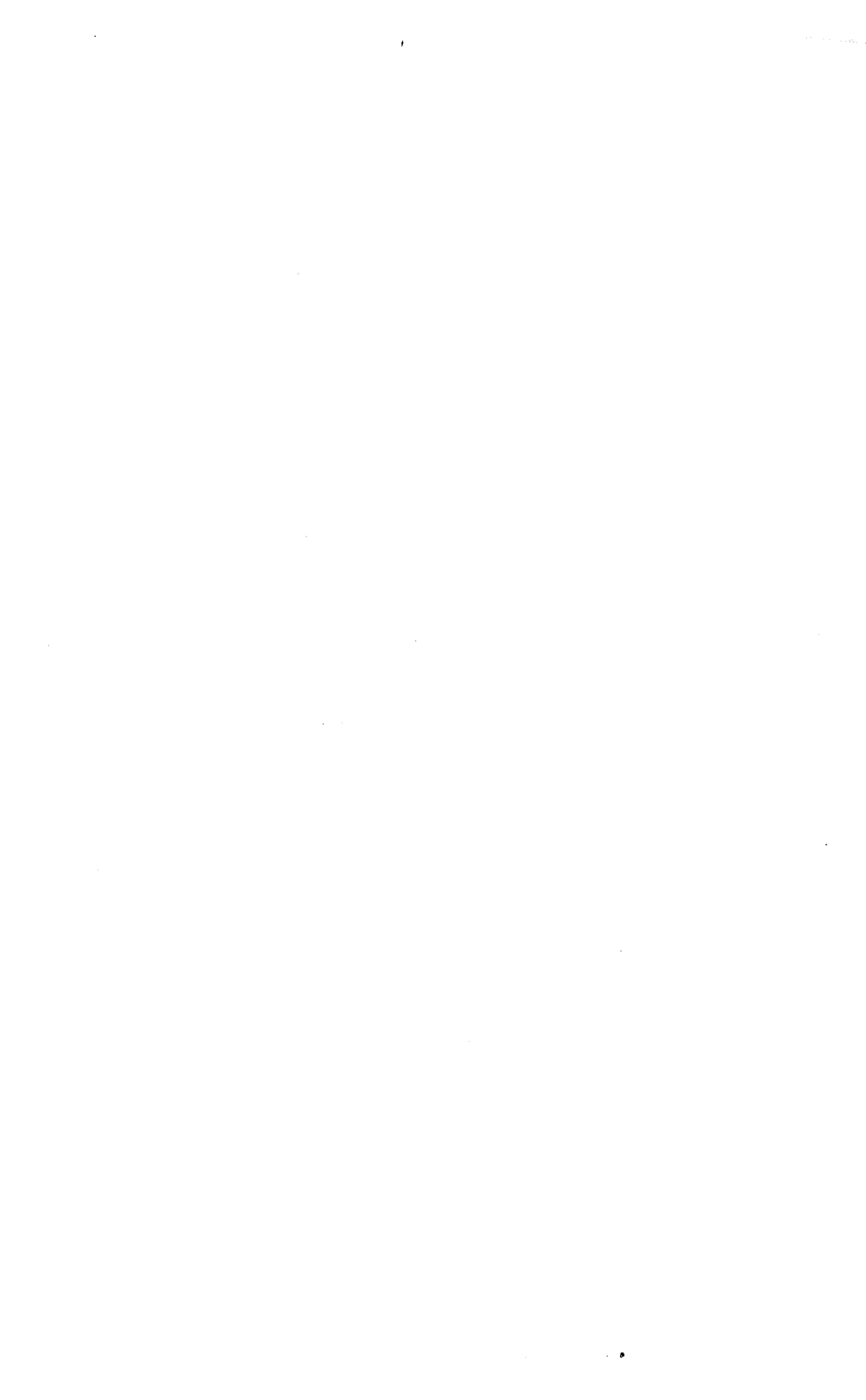
Rm 2a. FRENCH.—For students that offer French at entrance. The equivalent of the first half of course 2. *Five hours a fortnight.* Fall term. MR. HARRY.

Rm 2b. FRENCH.—The continuation of course 2a. The equivalent of the last half of course 2. *Five hours a fortnight.* Spring term. MR. HARRY.

Rm 3a. FRENCH.—For students that have taken courses 1 and 2, or their equivalent. Intermediate course. Daudet, Contes; Augier, Le Gendre de Monsieur Poirier; Hugo, Hernani; Beaumarchais, de Mariage de Figaro; Crane, Le Romantisme Français. Review of grammatical principles. Fasnacht, French Composition. *Five hours a fortnight.* Fall term. MR. HARRY.

Rm 3b. FRENCH.—The continuation of course 3a. *Five hours a fortnight.* Spring term. MR. HARRY.

Rm 4a. FRENCH.—The Seventeenth Century. Corneille, Racine, Molière. Lectures, outside reading, themes. *Five hours a fortnight.* Fall term. MR. HARRY.





MOUNT VERNON HOUSE FROM THE CAMPUS

Rm 4b. FRENCH.—The continuation of course 4a. **Spring** term. MR. HARRY.

Rm 5a. FRENCH.—General survey of French literature. Lectures, recitations, themes in English and French; collateral reading. *Five hours a fortnight*. Fall term. PROFESSOR LEWIS; MR. HARRY.

Rm 5b. FRENCH.—The continuation of course 5a. The extended study of a particular epoch. *Five hours a fortnight*. Spring term. PROFESSOR LEWIS; MR. HARRY.

Rm 9a. SPANISH.—An elementary course, elective for those who have completed course 2. The text-books are: Edgren, Spanish Grammar; Matzke, Spanish Reader; Alarcón, El Capitán Veneno. *Five hours a fortnight*. Given in the fall term of even years. PROFESSOR LEWIS.

Rm 9b. SPANISH.—A continuation of course 9a. *Five hours a fortnight*. Given in the spring term of odd years. PROFESSOR LEWIS.

Rm 11a. ITALIAN.—An elementary course, elective for those who have completed course 2. The text-books are: Grandgent, Italian Grammar; Bowen, First Italian Readings. *Five hours a fortnight*. Given in the fall term of odd years. PROFESSOR HUDDILSTON.

Rm 11b. ITALIAN.—A continuation of course 11a. The text-books are: Grandgent, Italian Composition; Goldoni, La Locandiera; De Amicis, Cuore; Manzoni, I Promessi Sposi. *Five hours a fortnight*. Given in the spring term of even years. PROFESSOR HUDDILSTON.

GERMAN

PROFESSOR LEWIS; MR. THOMPSON.

Gm I. GERMAN.—Elementary course. Huss, German Reader; Harris, German Lessons; Storm, Immensee; Gerstäcker, Germelshausen; Fouqué, Undine. *Four hours a week*. Fall term. PROFESSOR LEWIS; MR. THOMPSON.

Gm 2. GERMAN.—The continuation of course 1. *Four hours a week.* Spring term. PROFESSOR LEWIS; MR. THOMPSON.

Gm 2a. GERMAN.—For students who offer German at entrance. The equivalent of the first half of course 2. *Five hours a fortnight.* Fall term. PROFESSOR LEWIS.

Gm 2b. GERMAN.—The continuation of course 2a. The equivalent of the last half of course 2. *Five hours a fortnight.* Spring term. PROFESSOR LEWIS.

Gm 3a. GERMAN.—For students that have taken courses 1 and 2, or their equivalent. Lessing, Minna von Barnhelm; Schiller, Wilhelm Tell; Wildenbruch, Harold; Brandt and Day's Scientific Readings. Review of grammatical principles; Harris, German composition. *Five hours a fortnight.* Fall term. PROFESSOR LEWIS.

Gm 3b. GERMAN.—The continuation of course 3a. *Five hours a fortnight.* Spring term. PROFESSOR LEWIS.

Gm 4a. GERMAN.—Schiller, Wallenstein; Goethe, Egmont; Lessing, Nathan der Weise; outside reading; themes. *Five hours a fortnight.* Fall term. PROFESSOR LEWIS.

Gm 4b. GERMAN.—Goethe, Faust, Part I. Lectures, themes, reference readings. *Five hours a fortnight.* Spring term. PROFESSOR LEWIS.

Gm 5a. GERMAN.—History of German literature. Kluge, Deutsche National Litteratur. Lectures, recitations, themes in English and German; collateral reading. *Five hours a fortnight.* Fall term. PROFESSOR LEWIS.

Gm 5b. GERMAN.—A continuation of the history of German literature. The extended study of a particular epoch. *Five hours a fortnight.* Spring term. PROFESSOR LEWIS.

ENGLISH

PROFESSOR ESTABROOKE; MR. THOMPSON.

Eh 1. DECLAMATIONS.—In the freshman year six declamations are required—three in the fall, and three in the spring. In the sophomore and junior years, five are required each year—three in the fall, and two in the spring. PROFESSOR ESTABROOKE; MR. THOMPSON.

Eh 2. THEMES.—In the sophomore year five themes, historical in subject, and each containing from 1,000 to 1,200 words, are required. In the junior year five themes are required, and in the senior year, two themes or debates. PROFESSOR ESTABROOKE; MR. THOMPSON.

Eh 3. RHETORIC.—The classification of sentences; analysis of the sentence with reference to punctuation, clearness, strength, and unity; exercises in punctuation; diction, with special reference to purity, propriety, and precision of language; the paragraph; themes, including the narrowing of the subject, construction of outline, etc.; frequent exercises in extemporaneous writing; formal essays.

The text-book is Genung's Outlines of Rhetoric. *Five hours a fortnight.* Fall term. PROFESSOR ESTABROOKE; MR. THOMPSON.

Eh 4. RHETORIC.—Extended study of narration and description, argumentative composition, and persuasion; construction of analytical outlines of selections from Burke, Webster, Macaulay, and others; practice in different kinds of composition; exercises in extemporaneous writing.

The text-book is A. S. Hill's Principles of Rhetoric. *Five hours a fortnight.* Spring term. PROFESSOR ESTABROOKE; MR. THOMPSON.

Eh 5. OLD ENGLISH.—Elements of Old English grammar; reading of easy prose and poetry. Constant reference is made to the relation of Old English to modern English and modern German.

The text-book is Smith's Old English Grammar. *Five hours a fortnight.* Spring term. PROFESSOR LEWIS.

Eh 8. ENGLISH LITERATURE.—The text-book, Pancoast's Introduction to English Literature, is supplemented by frequent lectures, and by study in the library. A few masterpieces are studied in detail. Attention is given to historical and social conditions, and the students are required to prepare essays upon the characters and times studied. *Five hours a fortnight.* Fall term. PROFESSOR ESTABROOKE.

Eh 9. ENGLISH LITERATURE.—A continuation of course 8. *Five hours a fortnight.* Spring term. PROFESSOR ESTABROOKE.

Eh 10. ENGLISH LITERATURE.—In this course particular attention is paid to the development of the English novel and to the Lake poets. *Five hours a fortnight.* Fall term. PROFESSOR ESTABROOKE.

Eh 11. ENGLISH LITERATURE.—A continuation of course 10, including a study of the most important American authors of the present century. *Five hours a fortnight.* Spring term. PROFESSOR ESTABROOKE.

Eh 12. ENGLISH LITERATURE.—Readings from English fiction. In this course selections from English novelists (chiefly later ones) are read critically, in order to determine the characteristic qualities of each. At least one entire work of a selected author is carefully studied. *Five hours a fortnight.* Fall term. PROFESSOR ESTABROOKE.

Eh 13. ENGLISH LITERATURE.—A continuation of course 12. *Five hours a fortnight.* Spring term. PROFESSOR ESTABROOKE.

PHILOSOPHY

PROFESSOR FERNALD.

Pl 1. PSYCHOLOGY.—Among the topics considered are sensation, structure and functions of the brain, conditions of neural activity, consciousness, attention, conception, discrimination, association, memory, imagination, perception, reasoning, instinct, emotions and sentiments, will as volition, will as choice, and will in relation to character.

The text-book is James's Psychology (Briefer Course.) *Five hours a fortnight.* Fall term.

Pl 2. LOGIC.—The object of this course is to give the student a just appreciation of the functions of language as a means of expressing thought, and a familiarity with the principles of deductive and inductive reasoning. The student is given frequent drills in the application of logical principles.

The text-book is Ryland's Logic. *Five hours a fortnight.* Spring term.

Pl 3. HISTORY OF PHILOSOPHY.—The text-book is Weber's History of Philosophy. *Five hours a fortnight.* Fall term of odd years.

Pl 4. PEDAGOGY.—The principles of psychology applied to the art of teaching. The order in which the several powers of the mind become active; their relative activity and development at successive school periods. The principles and methods of teaching; oral instruction and the study of books; the recitation, its objects and methods; methods of testing, by questions, by topics; examinations; psychical facts applied to moral training. *Five hours a fortnight.* Spring term.

Pl 5. COMPARATIVE PSYCHOLOGY. The psychology of man and the higher animals compared. A study of other minds than ours with reference to sense-experience, instinct and intelligence, association of ideas, memory, perception of relations, the power to reason, and the emotions. *Five hours a fortnight.* Offered in the spring term of even years. Open to juniors and seniors that have taken course I.

Pl 6. PSYCHOLOGY, ADVANCED COURSE.—Besides special topics in general psychology, this course is designed to include a discussion of such phenomena as sleep and dreams, the hypnotic state, thought transference, illusions and hallucinations. *Five hours a fortnight.* Offered in the spring term of odd years. Open to juniors and seniors that have taken course I.

Pl 8. EXPERIMENTAL PSYCHOLOGY.—This course deals with mental processes from the standpoint of experimental study, and seeks to develop the power of introspection of these processes by modern experimental methods. † *Two hours a week.* Spring term. Open to juniors and seniors that have taken course I, to the limit of the psychological laboratory.

Pl 9. HISTORY OF EDUCATION.—Educational systems, methods, theories, and practices of the ancient oriental and classical nations, as also of the nations and peoples of mediaeval and modern times. A comparison of the school systems of the more advanced nations, especially of those of Germany, France, England, and the United States. The history of education aims to develop, for present and future service, an educational science based on the clear and definite teachings of the past. *Five hours a fortnight.* Fall term. Open to juniors and seniors. Pl 9 precedes Pl 4 in the course in Pedagogy.

CIVICS AND HISTORY

PROFESSOR ROGERS.

Cv 1. GENERAL HISTORY.—The text-book is Schwill's History of modern Europe. *Five hours a fortnight.* Fall term.

Cv 2. ENGLISH HISTORY.—The text-book is Gardiner's A Student's History of England. *Five hours a fortnight.* Spring term.

Cv 3. AMERICAN HISTORY.—Lectures, supplemented by topical investigation and study.

The text-book is Burgess's Middle Period. *Two hours a week.* Fall term.

Cv 4. THE PHILOSOPHY OF HISTORY.—The literature, learning, political and economic conditions of the great historic nations, and the growth of their institutions.

The text-book, Adams's European History, is supplemented by lectures and topical studies. *Five hours a fortnight.* Given in the fall term of even years.

Cv 11. INTERNATIONAL LAW.—The text-book is Lawrence's International law. *Five hours a fortnight.* Given in the fall term of odd years.

Cv 12. LIBRARY WORK.—The aim of this work is to familiarize the student with the literature of history and economics and to teach him to make critical and independent investigation of questions connected with these subjects. †*Five hours a fortnight.* Spring term.

Cv 13. POLITICAL ECONOMY.—Instruction is given by lectures. Topical readings and investigations are required. *Five hours a fortnight.* Fall term.

Cv 14. POLITICAL ECONOMY.—A continuation of course 13. *Five hours a fortnight.* Spring term.

Cv 15. CONSTITUTIONAL LAW AND HISTORY.—An outline of Anglo-Saxon institutions, the development of the English Constitution, the growth and political conditions of the American colonies, the Articles of Confederation, the adoption of the Constitution, and the comparative study of the Federal and the State Constitutions from the historical and legal standpoints.

The text-book is Rogers's *Our System of Government.* *Five hours a fortnight.* Fall term.

Cv 16. CONSTITUTIONAL LAW AND HISTORY.—A continuation of course 15. *Five hours a fortnight.* Spring term.

Cv 17. AMERICAN HISTORY.—A continuation of course 3. *Two hours a week.* Spring term.

MATHEMATICS AND ASTRONOMY

PROFESSOR HART; MR. SIFF; MR. PACKARD.

Ms 1. SOLID GEOMETRY.—Solid and spherical geometry, including the mensuration of solids, and original demonstrations.

The text-book is Wells' *Solid Geometry.* *Five hours a fortnight.* Spring term. PROFESSOR HART; MR. SIFF.

Ms 2. ALGEBRA.—Review of quadratic equations, the binomial theorem, ratio and proportion, and the progressions; indeterminate equations; logarithms.

The text-book is Wells' *College Algebra.* *Two hours a week.* Fall term. MR. PACKARD; MR. SIFF.

Ms 3. ALGEBRA.—Convergence and divergence of series; undetermined coefficients; partial fractions; exponential and logarithmic series; permutations and combinations; probability; the theory of equations.

The text-book is Wells' College Algebra. *Five hours a fortnight.* Spring term. PROFESSOR HART; MR. PACKARD; MR. SIFF.

Ms 4. PLANE TRIGONOMETRY.—The text-book is Murray's Trigonometry. *Three hours a week.* Fall term. PROFESSOR HART; MR. SIFF; MR. PACKARD.

Ms 5. ANALYTICAL GEOMETRY.—A brief study of the point, right line, and conic sections.

The text-book is Wentworth's Analytic Geometry. *Five hours a fortnight.* Spring term. MR. PACKARD.

Ms 6. ANALYTICAL GEOMETRY.—A more extended course. The straight line conic sections, including polar and oblique coördinates; the equation of the second degree; introduction to solid analytical geometry.

The text-book is Tanner and Allen's Analytic Geometry. *Five hours a week.* Fall term. PROFESSOR HART; MR. SIFF; MR. PACKARD.

Ms 7. CALCULUS.—Differentiation; integration by fundamental formulas; definite integrals.

The text-book is Hall's Differential and Integral Calculus. *Five hours a week.* Spring term. MR. SIFF; MR. PACKARD.

Ms 8. CALCULUS.—Applications of differential calculus; applications of integral calculus.

The text-book is Hall's Differential and Integral Calculus. *Five hours a fortnight.* Fall term. PROFESSOR HART; MR. PACKARD.

Ms 9. DESCRIPTIVE ASTRONOMY. —The text-book is supplemented by informal lectures, and illustrated by lantern slides, the Trouvelot drawings of celestial objects, and work in the observatory.

The text-book is Comstock's Text-book of Astronomy. *Five hours a fortnight.* Fall term. MR. PACKARD.

Ms 10. PRACTICAL ASTRONOMY.—Problems in the conversion of time, the determination of terrestrial latitudes and longitudes, and the establishment of meridian lines. The instruments used

are the sextant, artificial horizon, portable chronometer, theodolite, and verticle circle. *Five hours a fortnight.* Spring term. PROFESSOR HART.

Ms 11. ADVANCED ALGEBRA.—Determinants and the solution of higher equations. *Five hours a fortnight.* Spring term. MR. PACKARD.

Ms 12. ADVANCED INTEGRAL CALCULUS.—A course based upon Byerly's Integral Calculus. *Five hours a fortnight.* Given in the fall term of odd years. PROFESSOR HART.

Ms 13. ADVANCED INTEGRAL CALCULUS.—A continuation of course 12. *Five hours a fortnight.* Given in the spring term of even years. PROFESSOR HART.

Ms 15. DIFFERENTIAL EQUATIONS.—The text-book is Murray's Differential Equations. *Five hours a fortnight.* Given in the spring term of odd years. PROFESSOR HART.

Ms 16. PRACTICAL ASTRONOMY.—The theory and use of the sextant, universal instrument, transit, and equatorial. *Five hours a fortnight.* Given in the fall term of odd years. PROFESSOR HART.

Ms 17. PRACTICAL ASTRONOMY.—A continuation of course 16. *Five hours a week.* Given in the spring term of even years. PROFESSOR HART.

Ms 19. SPHERICAL TRIGONOMETRY.—A continuation of course 4, with additional problems and applications to spherical astronomy. *Two hours a week.* Spring term. MR. SIFF; MR. PACKARD.

Ms 20. SOLID ANALYTICAL GEOMETRY.—Lectures based on C. Smith's Solid Geometry. *Five hours a fortnight.* Given in the fall term of even years. PROFESSOR HART.

PHYSICS

PROFESSOR STEVENS; MR. BURBANK; MR. POUCHER.

Ps 1. GENERAL PHYSICS.—Lectures on the dynamics of solids, liquids and gases; sound and light; experiments before the class; problems. *Five hours a week.* Fall term. PROFESSOR STEVENS; MR. BURBANK.

Open to students that have taken Ms 4.

Ps 2. GENERAL PHYSICS.—A continuation of course 1; heat and electricity. *Five hours a fortnight.* Spring term. PROFESSOR STEVENS; MR. BURBANK.

Ps 3. ELEMENTARY PHYSICS.—A non-mathematical course, covering the ground of course 1. The recitations are supplemented by lectures and experimental demonstrations.

The text-book is Dolbear's Natural Philosophy. *Five hours a fortnight.* Fall term. MR. POUCHER.

Ps 4. ELEMENTARY PHYSICS.—A continuation of course 3. *Two hours a week.* Spring term. MR. POUCHER.

Ps 5. LABORATORY PHYSICS.—The subjects usually included in an under-graduate course. Special attention is given to the reduction of observations, and the tabulation of results.

Nichols's Laboratory Manual is made the basis of most of the experiments. †*Five hours a week.* Spring term. PROFESSOR STEVENS; MR. BURBANK; MR. POUCHER.

Open to students that have taken either course 1 or course 12.

Ps 6. LABORATORY PHYSICS.—A brief course for students in the short course in pharmacy. †*Two hours a fortnight.* Spring term. MR. POUCHER.

Ps 7. ADVANCED OPTICS.—Lectures in continuation of course 1, based chiefly upon Preston's Light. *Five hours a fortnight.* Spring term. PROFESSOR STEVENS.

Open to students that have taken Ms 8.

Ps 8. ADVANCED PHYSICS.—One course in advanced physics is offered each year. For this year the text-book is Nipher's Electricity and Magnetism. *Five hours a fortnight.* Fall term. PROFESSOR STEVENS.

Open to students that have taken Ms 8.

Ps 9. LABORATORY PHYSICS.—General laboratory work in continuation of course 5. †*Five hours a week.* Fall term. PROFESSOR STEVENS.

Ps 10. LABORATORY PHYSICS.—Advanced laboratory work in optics, in continuation of course 9. †*Five hours a week.* Spring term. PROFESSOR STEVENS.

Ps 11. ELECTRICAL MEASUREMENT AND TESTING.—The measurement of resistance, potential, current and capacity; the testing of galvanometers, etc. The charge for this course is \$2.50. †*Four hours a week.* Fall term. MR. BURBANK; MR. POUCHER.

Ps 12. GENERAL PHYSICS.—A course covering the ground of course I, with more attention to the experimental and historical aspects and less to the mathematical.

The text-book is Gage's Principles of Physics. *Five hours a fortnight.* Fall term. MR. BURBANK.

Ps 13. GENERAL PHYSICS.—A continuation of course 12. *Five hours a fortnight.* Spring term. MR. BURBANK.

Ps 14. ELECTRICAL MEASUREMENT AND TESTING.—Additional work in the subjects offered in course 11, with lectures on the mathematical theory of electrical instruments. The charge for this course is \$1.00. *One hour a week.* Fall term. PROFESSOR STEVENS. †*Three hours a week.* Fall term. MR. BURBANK; MR. POUCHER.

Ps 15. LABORATORY PHYSICS.—A special course, open to students that have completed courses 9, 10 and 11. Some subject is assigned for original investigation, or the work of a published research is repeated. †*Five hours a week.* Fall term. PROFESSOR STEVENS.

Ps 16. LABORATORY PHYSICS.—A continuation of course 15.
†*Five hours a week.* Spring term. PROFESSOR STEVENS.

Ps 17. ELECTROCHEMISTRY.—A lecture course on the modern theory of electrolysis and some of its practical applications. Attention will be given to the theory of battery cells, to the application of electrolysis in mining and purification of metals, and other commercial applications.

Lectures supplemented by references. *Five hours a fortnight.*
Spring term. MR. BURBANK.

Open to students that have taken courses 2 and 5, and Ch 2.

CHEMISTRY

PROFESSOR AUBERT; DR. BOGGS; MR. MITCHELL.

Ch 1. GENERAL CHEMISTRY.—Recitations and lectures on the general principles of chemistry, illustrated by charts, experiments, etc.

The text-book is Remsen's Inorganic Chemistry. *Five hours a fortnight.* Fall term. DR. BOGGS.

Ch 2. GENERAL CHEMISTRY.—A continuation of course 1.
Five hours a fortnight. Spring term. DR. BOGGS.

Ch 3. LABORATORY CHEMISTRY.—The preparation of the more common elements and inorganic compounds, and the study of their properties.

The text-book is Remsen and Randall's Chemical Experiments.
†*Two hours a week.* Fall term. MR. MITCHELL.

Ch 4. LABORATORY CHEMISTRY.—Elementary qualitative analysis.

The text-book is Roger's Qualitative Analysis. †*Two hours a week.* Spring term. MR. MITCHELL.

Ch 5. INORGANIC CHEMISTRY.—Lectures and recitations, illustrated by specimens.

The text-book is Newth's Text-book of Chemistry. *Five hours a fortnight.* Fall term. PROFESSOR AUBERT; MR. MITCHELL.

Ch 6. INORGANIC CHEMISTRY.—A continuation of course 5. *Five hours a fortnight.* Spring term. PROFESSOR AUBERT; MR. MITCHELL.

Ch 7. ORGANIC CHEMISTRY.—The marsh gas series. Lectures and recitations, illustrated by specimens.

The text-book is Remsen's Organic Chemistry. *Five hours a fortnight.* Fall term. PROFESSOR AUBERT; MR. MITCHELL.

Ch 8. ORGANIC CHEMISTRY.—The unsaturated compounds and the benzene series.

The text-book is Remsen's Organic Chemistry. *Five hours a fortnight.* Spring term. PROFESSOR AUBERT; MR. MITCHELL.

Ch 10. ANALYTIC METHODS.—Discussion of gravimetric and volumetric methods.

The text-books are Appleton's Quantitative Analysis and Clowes and Coleman's Quantitative Analysis. *One hour a week.* Fall term. PROFESSOR AUBERT.

Open to students that have taken course 16.

Ch 11. ORGANIC CHEMISTRY.—The text-book is De Coninck's Cours de Chimie Organique. *Five hours a fortnight.* Spring term. PROFESSOR AUBERT.

Ch 12. ORGANIC CHEMICALS.—The preparation and purification of typical organic substances.

The text-book is Aubert's Organic and Inorganic Preparations. †*Five hours a week.* Fall term. PROFESSOR AUBERT.

Ch 13. DESCRIPTIVE MINERALOGY.—The text-book is Moses and Parsons's Elements of Mineralogy. †*Two hours a week.* Spring term. PROFESSOR JACKMAN.

Ch 14. QUALITATIVE ANALYSIS.—A study of qualitative analytical methods and reactions with a view to a clear understanding of the properties of the most important metals, non-metals and acids. The laboratory work is supplemented by recitations and reviews.

For students in the Chemical course the text is A. A. Noyes's Qualitative Analysis. For others the text will be suited to the nature of the course. *The time varies: it is stated in the tables.*
DR. BOGGS.

Course 5 must be taken in connection with course 14, except by students in the Short Pharmacy Course, and those specially excused.

Ch 15. A continuation of Ch 14, with application of methods to the determination of unknown substances of increasing complexity. Some of the more unusual methods are studied, using the larger text-books in the library for reference.

The time varies; it is stated in the tables. DR. BOGGS.

Course 6 must be taken in connection with course 15, except by students in the Short Pharmacy Course, and those specially excused.

Ch 16.—QUANTITATIVE ANALYSIS.—Gravimetric determinations.

The text-book is Appleton's Quantitative Analysis. *The time varies; it is stated in the tables.* PROFESSOR AUBERT; MR. MITCHELL.

Ch 18. QUANTITATIVE ANALYSIS.—Analysis of complex alloys, minerals, etc.

The text-book is Clowes and Coleman's Quantitative Analysis. *The time varies; it is stated in the tables.* Fall term. PROFESSOR AUBERT.

Ch 19. VOLUMETRIC ANALYSIS AND ASSAYING.—Acidimetry, alkalimetry, oxydimetry; gold and silver assaying.

The text-book is Clowes and Coleman's Quantitative Analysis. *The time varies; it is stated in the tables.* PROFESSOR AUBERT.

Ch 20. AGRICULTURAL ANALYSIS.—The analysis of fodders, fertilizers, milk, and other agricultural products. The methods are those recommended by the Association of Official Agricultural Chemists. *The time varies; it is stated in the tables.* PROFESSOR AUBERT.

Ch 21. TOXICOLOGY AND URINALYSIS.—The determination of the commoner poisons; the analysis of urine.

The text-book is Aubert's Urinalysis and Toxicology. *The time varies; it is stated in the tables.* PROFESSOR AUBERT.

Ch 22. **THESIS WORK.**—The thesis must embody the results of original work in analysis, or research. † *Fifteen hours a week for eleven weeks.* Spring term. PROFESSOR AUBERT.

Ch 23. **ORGANIC CHEMISTRY.**—A continuation of course 8. *Five hours a fortnight.* Fall term. PROFESSOR AUBERT.

Ch 24. **INDUSTRIAL CHEMISTRY.**—General processes of technical chemistry, and selected subjects including the principal manufactured products of special interest. Lectures and recitations. The text-book is Thorp's Outlines of Industrial Chemistry. *Five hours a fortnight.* Spring term. PROFESSOR AUBERT.

Open to students that have taken course 8.

Ch 25. **TECHNICAL ANALYSIS.**—The analysis of ores and industrial products. † *Five hours a week.* Fall term. PROFESSOR AUBERT.

Ch 26. **PHYSICAL CHEMICAL METHODS.**—The determination of molecular weight by the vapor density, boiling point, and freezing point methods. The use of the refractometer and the polariscope. † *Five hours a week.* Spring term. PROFESSOR AUBERT.

Ch 27. **LABORATORY PHYSIOLOGICAL CHEMISTRY.**—Qualitative tests of fats, carbohydrates, protein, blood, milk, etc.

The text-book is Novy's Physiological Chemistry. † *Ten hours a week for nine weeks.* Fall term. PROFESSOR JACKMAN.

Ch 28. **DYEING.**—The practical application of dyes to cotton, wool, and silk. † *Fifteen hours a week for two weeks.* Spring term. PROFESSOR AUBERT.

BIOLOGY

PROFESSOR DREW; MR. BRITCHER; MR. CARY.

* Bl 1. **GENERAL BIOLOGY.**—Students study in the laboratory, and where possible in the field, plants and animals selected to illustrate some of the simpler principles of biology. The general truths learned in the laboratory are emphasized and arranged by recitations and lectures. This course serves as a preparation for more advanced work in zoology, botany and physiology, and

affords the general student an opportunity to gain some knowledge of the subject. It is to be taken in connection with course 2. *Five hours a fortnight.* Fall term.

Bl 2. LABORATORY BIOLOGY.—To be taken in connection with course 1. †*Five hours a week.* Fall term.

Bl 3. CRYPTOGAMIC BOTANY.—Type forms of flowerless plants are studied in the laboratory and field. Attention is given to their economic importance, structure and life histories. This course is to be taken in connection with course 4. Course 1 is required as a preparation. *Five hours a fortnight.* Given in the fall term of odd years.

Bl 4. LABORATORY BOTANY.—To be taken in connection with course 3. †*Two hours a week.* Given in the fall term of odd years.

Bl 5. ZOOLOGY (Invertebrate animals).—The habits, comparative anatomy and classification of invertebrate animals are studied in the laboratory, class-room and field. This course is to be taken in connection with course 6. It is not complete in itself, but should be followed by course 7. Course 1 is required as a preparation. *Five hours a fortnight.* Fall term.

Bl 6. LABORATORY ZOOLOGY.—To be taken in connection with course 5. †*Five hours a week.* Fall term.

Bl 7. ZOOLOGY (Vertebrate animals).—A continuation of course 5. Types of vertebrate animals are studied and their structures compared. It is to be taken in connection with course 8. This course is not complete in itself. It should be preceded by course 5. Course 1 is required as a preparation. *Five hours a fortnight.* Spring term.

Bl 8. LABORATORY ZOOLOGY.—To be taken in connection with course 7. †*Five hours a week.* Spring term.

Bl 9. PHYSIOLOGY.—A study of the physiological activities of the animal body, with a laboratory basis of dissections, microscopic anatomy, and simple experiments. This course is to be taken in connection with course 10. Course 1 is required as a preparation. *Five hours a fortnight.* Spring term.

Bl 10. LABORATORY PHYSIOLOGY.—To be taken in connection with course 9. †*Five hours a week.* Spring term.

Bl 11. ENTOMOLOGY.—The classification and structure of insects are studied in the laboratory, and observations on life-histories and economic importance are made in the field.

There are lectures and recitations at intervals during the term. This course is to be taken in connection with course 12. Course 1 is required as a preparation. *Five hours a fortnight.* Given in the fall term of even years.

Bl 12. LABORATORY ENTOMOLOGY.—To be taken in connection with course 11. †*Two hours a week.* Given in the fall term of even years.

Bl 13. GEOLOGY.—A study of the structure and history of the earth, and the processes by means of which geological changes are brought about. *Five hours a fortnight.* Fall term.

Bl 14. ADVANCED ZOOLOGY OR BOTANY.—Students who desire to continue the study of zoology or botany are supplied with modern apparatus, and instructed in modern methods of research. In general each student electing this work is given a problem and encouraged to devise means for its solution. *The time varies and may continue for one or more terms.*

AGRICULTURE

PROFESSOR WOODS; PROFESSOR GOWELL; PROFESSOR MERRILL;
PROFESSOR RUSSELL.

Ag 1. BIOLOGICAL CHEMISTRY.—Lectures and recitations on the chemical changes in nature important to agriculture; the composition of air, soils, natural waters, and plants; the sources and assimilation of plant food, and the chemical processes and methods of investigation by which these subjects are studied.

The text-book is Johnson's *How Crops Grow.* *Five hours a fortnight.* Fall term. PROFESSOR MERRILL.

Ag 2. BIOLOGICAL CHEMISTRY.—A continuation of course 1. Lectures and recitations in physiological chemistry, including

the composition of the animal body, and of food materials; the chemical changes involved in the digestion and assimilation of food; the chemistry of milk and dairy products, and the chemical processes and methods of investigation by which these subjects are studied.

The text-book is Arthus's *Chimie Physiologique*. *Five hours a week*. Spring term. PROFESSOR MERRILL.

Ag 3. AGRICULTURAL CHEMISTRY.—Lectures on the origin, composition, preparation and use of commercial fertilizers; the supply, composition, care and use of farm manures, and the general considerations which pertain to the maintenance of soil fertility. *Five hours a fortnight for nine weeks*. Given in the spring term of even years. PROFESSOR WOODS.

Ag 4. AGRICULTURAL PHYSICS.—Lectures on the relation of soils to heat and moisture; the mechanical condition of soils best suited to plant growth, and the objects to be gained by cultivation. *Five hours a fortnight for nine weeks*. Given in the spring term of odd years. PROFESSOR WOODS.

Ag 5. AGRICULTURAL ENGINEERING.—Lectures on farm drainage, irrigation, water supply for stock and household, farm implements and machinery, handling crops, construction of farm buildings, sites, etc. *Five hours a fortnight for nine weeks*. Given in the spring term of even years. PROFESSOR GOWELL.

Ag 6. STOCK FEEDING.—Lectures upon the production of cattle foods and their composition; formulating rations for milk and meat production; the application of the lectures to the animals in the herd.

The text-book is Jordan's *Feeding of Animals*. *Five hours a week for seven weeks*. Given in the spring term of odd years. PROFESSOR GOWELL.

Ag 7. DAIRYING.—Lectures upon the formation and composition of milk; sources of infection; bacteria and their relation to dairying; ferments and their effects.

The text-books are Grotenfelt and Woll's *Principles of Modern Dairy Practice*, and Wing's *Milk and its Products*. *Five hours a fortnight for nine weeks*. Given in the spring term of even years. PROFESSOR GOWELL.

Ag 8. STOCK BREEDING.—Lectures on animal reproduction, the principles of breeding, and the means of improvement and development. Practice is given in judging animals by a scale of points.

The text-books are Miles's Cattle Breeding, and Saunder's Horse Breeding. *Five hours a week for seven weeks.* Given in the spring term of odd years. PROFESSOR GOWELL.

Ag 9. POULTRY INDUSTRY.—Lectures, with practice in handling poultry; judging by a scale of points; breeding; hatching by natural and artificial processes; the use of machinery; caponizing; the construction and arrangement of buildings. *Five hours a week for four weeks.* Given in the spring term of odd years. PROFESSOR GOWELL.

Ag 10. DAIRY PRACTICE.—The treatment and handling of milk and cream; milk testing for fat and other solids; aëration, pasteurization and sterilization; the application of acid tests and ferments to butter and cheese making; operating and caring for dairy machinery; making, curing and judging butter and cheese; the business management of factories and creameries. Each student is required to provide two suits of clothes made of white drilling. *†Seven hours a week for twelve weeks.* Given in the spring term of even years. PROFESSOR GOWELL.

Ag 11. VETERINARY SCIENCE.—Lectures, demonstrations and clinics, illustrated by models, natural preparations, and living animals. *Five hours a fortnight.* Given in the spring term of even years. PROFESSOR RUSSELL.

Ag 12. DISSECTING.—A brief course intended to make the student familiar with the location and appearance of the more important organs of the animal body. *†Seven hours a week for six weeks.* Given in the spring term of odd years. PROFESSOR RUSSELL.

Ag 13. BACTERIOLOGY.—An elementary laboratory course, including the preparation of culture media and a critical study of the morphological and biological characteristics of a few typical bacteria. *†Ten hours a week for four and a half weeks.* Spring term. PROFESSOR RUSSELL.

Ag 14. ANIMAL HISTOLOGY.—Dissecting and the preparation of the most important tissues and organs. †*Ten hours a week for nine weeks.* Spring term. PROFESSOR RUSSELL.

Ag 15. LABORATORY BACTERIOLOGY.—An advanced course. †*Ten hours a week for nine weeks.* Spring term. PROFESSOR RUSSELL.

HORTICULTURE

PROFESSOR MUNSON; MR. CUMMINGS.

Ht 1. GENERAL BOTANY.—The structure and functions of the organs of plants; the development and relationship of the leading groups. Lectures supplemented by work in the laboratory, greenhouses, and field.

Gray's School and Field Book of Botany is used for reference. †*Five hours a week.* Spring term. PROFESSOR MUNSON; MR. CUMMINGS.

Ht 2. POMOLOGY.—The principles and practice of fruit growing. A discussion of the distribution, economic importance, methods of culture and marketing of fruits, and protection from insect and fungous enemies. *Five hours a fortnight for nine weeks.* Given in the fall term of even years. PROFESSOR MUNSON.

Ht 3. VEGETABLE GARDENING.—The history and uses of leading garden vegetables, with directions for their culture in the field and under glass. Lectures. *Five hours a fortnight for nine weeks.* Given in the fall term of even years. PROFESSOR MUNSON.

Ht 4. PLANT VARIATION.—A discussion of the underlying principles of horticulture. The origin and distribution of cultivated plants; their variation as affected by soil, climate, and cultivation; the methods and effects of crossing; the principles of selection, and the influence of heredity. *Five hours a fortnight for nine weeks.* Given in the fall term of odd years. PROFESSOR MUNSON.

Open to students that have taken course I.

Ht 5. LANDSCAPE GARDENING.—The principles of landscape art and their application. *Five hours a fortnight for nine weeks.* Given in the fall term of odd years. PROFESSOR MUNSON.

Ht 6. LABORATORY HORTICULTURE.—Practical work in orchard, garden, and greenhouse, supplementing courses 2 and 3. †*Five hours a week*. Given in the fall term of even years. PROFESSOR MUNSON.

Ht 7. LABORATORY HORTICULTURE.—Practical work in the laboratory, the nursery, and on the campus, supplementing courses 4 and 5. †*Four hours a week*. Given in the fall term of odd years. PROFESSOR MUNSON.

Ht 8. HISTOLOGY OF PLANTS.—A description and comparison of tissues, with investigation of the minute anatomy of vegetable organs, and studies in the phenomena of cell development and fertilization.

Gregory's *Plant Anatomy* is used for reference. †*Five hours a week for nine weeks*. Spring term. PROFESSOR MUNSON.

Open to students that have taken course 1.

Ht 9. PLANT BREEDING.—A systematic study of the amelioration of plants by cultivation. Lectures and investigations concerning: the fact and philosophy of variation, the causes of individual differences, the choice and fixation of varieties; the philosophy of the crossing of plants, the limits of crossing, the function of a cross; how domestic varieties originate, the influence of heredity, the principles of selection.

Bailey's *Plant Breeding*, Darwin's *Animals and Plants under Domestication*, and Darwin's *Cross and Self Fertilization in the Vegetable Kingdom*, are used for reference. *Five hours a fortnight*. Given in the fall term of odd years. PROFESSOR MUNSON.

Open to students that have taken courses 1 and 4.

Ht 10. FORESTRY.—Importance and scope of the subject; meteorological influences; financial considerations; the propagation of trees and the planting of forests; forest management; forest products; forest fires, their prevention and control; enemies and diseases. Lectures. *Five hours a fortnight*. Given in the fall term of even years. PROFESSOR MUNSON.

CIVIL ENGINEERING

PROFESSOR GROVER; MR. BOARDMAN.

Ce 1. PLANE SURVEYING.—Recitations on the general principles of land surveying, the laying out of land, the dividing of land, surveying of public lands, direct leveling, and the variation of the magnetic needle.

The text-book is Raymond's Surveying. *Five hours a fortnight.* Spring term. MR. BOARDMAN.

Ce 2. FIELD WORK IN SURVEYING.—The use of the chain, compass, transit, and level. Instruments are adjusted, original surveys made, and old lines retraced. Plats are prepared of the surveys made in the field. The text-book is Field Manual by Pence and Ketchum. †*Four hours a week.* Spring term. MR. BOARDMAN.

Ce 3. RAILROAD ENGINEERING.—Lectures and recitations on the theory of railroad curves, switches, turnouts and slope stakes; the calculation of earthworks, and the resistance to trains offered by grades and curves; the theory of economic location.

The text-book is Allen's Railroad Curves and Earthwork. *Five hours a fortnight.* Fall term. MR. BOARDMAN.

Ce 4. RAILROAD WORK.—The location and detailed survey of a railroad several miles long. The curves are laid out, levels taken, and all the necessary measurements made to enable the student to compute the excavations and embankments and estimate the cost of construction. †*Five hours a week.* Fall term. MR. BOARDMAN.

Ce 5. HIGHWAY ENGINEERING.—The location, construction, and improvement of country roads under different conditions of soil, climate, and traffic. *One hour a week.* Fall term. PROFESSOR GROVER.

Ce 6. MECHANICS.—The principles of statics; the algebraic and graphic solution of statical problems, including simple trusses; exercises in finding the moment of inertia, center of gravity; the principles of dynamics, shearing force and bending moment. *Five hours a week.* Fall term. MR. VOSE.

Ce 7. MECHANICS.—A continuation of course 6. *Five hours a week.* Spring term. MR. VOSE.

Ce 8. SANITARY ENGINEERING.—Drainage of land; plumbing of houses; drainage and sewerage of towns; sewage disposal; water supply and purification; ventilation of houses.

The text-book is Folwell's Sewerage. *Five hours a fortnight.* Fall term. PROFESSOR GROVER.

Ce 9. HIGHER SURVEYING.—The plane table, stadia measurements, topographical surveying, the elements of geodesy, the measurement of base lines, calculation of a system of triangulation. †*Twelve hours a week for eight weeks.* Spring term. PROFESSOR GROVER.

Ce 10. HYDRAULICS.—The weight, pressure and motion of water; the flow of water through orifices and pipes; weir gauging; the flow of water in open channels, mains, and distribution pipes; distribution systems, the construction of water works for towns and cities.

The text-book is Merriman's Hydraulics. *Five hours a fortnight.* Spring term. PROFESSOR GROVER.

Ce 11. HYDRAULICS FIELD WORK.—The measurement of the flow of rivers is illustrated by the application of the current meter and the various forms of floats to the Penobscot river or some of its large branches. †*Seven hours a week for six weeks.* Fall term. PROFESSOR GROVER.

Ce 12. STRUCTURES.—A detailed study of the properties of materials used in engineering structures; their resistance to bending, breaking, extension and compression, under the various conditions of practice; the theory of stresses in framed structures; the usual systems of loading; the principles of designing. *Five hours a week.* Fall term. PROFESSOR GROVER.

Ce 13. STRUCTURES.—A continuation of course 12; including the study of problems in connection with masonry structures; natural and artificial foundations; the stability of dams and retaining walls; the designing of bridge piers and abutments; the theory of the masonry arch. *Five hours a week.* Spring term. PROFESSOR GROVER.

Ce 14. DESIGNING.—Designs for several of the common types of wooden and steel structures, and preparation of drawings for the shop. †*Seven hours a week for twelve weeks.* Fall term. MR. BOARDMAN.

Ce 15. DESIGNING AND THESIS WORK.—A continuation of course 14 and the preparation of a thesis. †*Twelve hours a week.* Spring term. PROFESSOR GROVER; MR. BOARDMAN.

Ce 16. HYDRAULIC ENGINEERING.—Rainfall, evaporation, and stream-flow; the collection, purification, and distribution of water for city supplies; water meters, water wheels and motors; the development and utilization of water power. *Five hours a fortnight.* Fall term. PROFESSOR GROVER.

Ce 17. HYDRAULIC ENGINEERING.—A continuation of course 16. *Five hours a fortnight.* Spring term. PROFESSOR GROVER.

Ce 18. SANITARY SCIENCE.—Lectures on the causes and prevention of disease, sanitation and the public health, and the relations of the engineer to this work. *One hour a week.* Fall term. PROFESSOR GROVER.

MECHANICAL ENGINEERING

PROFESSOR FLINT; MR. VOSE; MR. STEWARD.

Me 1. CARPENTRY.—The care and sharpening of tools, the squaring of stock, and taking work out of wind; practice in making different joints in soft and hard wood; wood turning. The charge for material is \$4.00 a term. †*Seven hours a week for twelve weeks.* Fall term. MR. VOSE.

Me 2. FORGE WORK.—Drawing and upsetting; welding; making rings, chain links, eye bolts, bolt heads, etc.; the making of a steel punch, cold chisels, and a set of lathe tools, for use in the machine shop; foundry work. The student must furnish a forging hammer, calipers, and scale, at a cost of \$2.50. The charge for materials is \$5.00 a term. †*Five hours a week.* Spring term. MR. STEWARD.

Me 3. KINEMATICS.—Methods of transmitting and transforming motion, illustrated by the solution of practical problems; study of forms of gearing, cone pulleys, etc.; construction of cams, lobed wheels, and gear teeth.

The text-book is Jones's Kinematics. † *Five hours a week.* Spring term. MR. VOSE.

Me 4. MACHINE WORK.—Exercises in filing and chipping; lathe work, drilling, boring and threading in the lathe; making cut gears, machinist taps, and finished bolts; exercises on the planer and shaper. Each student provides himself with center gauge, steel scale, and files, at a cost of \$2.50. The charge for materials is \$5.00 a term. Students will be given credit for work in commercial shops on presentation of satisfactory proof. *The time devoted to machine work varies.* MR. STEWARD.

Me 8. STRUCTURES.—A continuation of Ce 7, with applications to framed structures; graphic methods of analyzing roof and bridge trusses, and the stability of walls. Merriman's Mechanics of Materials, and Merriman's Roofs and Bridges are used for reference. *Five hours a fortnight.* Fall term. MR. VOSE.

Me 9. MACHINE DESIGN.—The principles of machine construction, treated by means of text-books, lectures, and a study of methods in modern practice; the preparation of working drawings, and the sketching of original designs of simple machine parts.

The text-book is Jones's Machine Design, Part II. † *Seven hours a fortnight.* Spring term. MR. VOSE.

Me 10. HYDRO-MECHANICS.—The behavior of liquids in motion and under pressure, flowing through pipes and in open channels, with problems.

The text-book is Bowser's Hydro-Mechanics. *Five hours a fortnight.* Fall term. PROFESSOR FLINT.

Me 11. HEAT AND STEAM.—The characteristics of steam and its behavior in pipes, boilers, and particularly in the cylinders

of engines; problems involving the properties of saturated steam; the calculation of steam pipes and safety valves; the design of a boiler suited to run an engine under given conditions, and the detail drawings.

The text-book is Benjamin's Heat and Steam. *Five hours a fortnight.* Fall term. PROFESSOR FLINT.

Me 12. STEAM BOILER DESIGN.—Drawings of the more important parts of the design worked out in course 11. †*Twelve hours a week.* Fall term. PROFESSOR FLINT.

Me 13. TESTING.—Tests of steam gauges, boilers, etc.; tests of different metals under tension and compression. *Five hours a fortnight.* Spring term. PROFESSOR FLINT.

Me 14. STEAM ENGINE.—The steam engine as a source of power; the design, proportions and working of engine cylinders, steam pipes, and ports; engine valves, eccentrics, adjustable eccentrics; the locomotive link motion with its connections; problems on the slide valve and link motion; the calculation of details of an engine.

The text-book is Auchincloss's Link and Valve Motion. *Seven hours a fortnight.* Spring term. PROFESSOR FLINT.

Me 15. STEAM ENGINE DESIGN.—Drawings of the parts worked out in course 14; the setting of valves by means of the indicator, the calculation of horse power; the consumption of water and coal, etc. †*Fifteen hours a week for nine weeks.* Spring term. PROFESSOR FLINT.

Me 16. THESIS WORK.—The design of a piece of machinery, or of some piece of scientific apparatus, or, an original investigation of some engineering problem to be fully written up and presented to the department. †*Fifteen hours a week for nine weeks.* Spring term. PROFESSOR FLINT.

Me 19. MACHINE DRAWING.—Practice in tracing completed drawings, and in making drawings of standard bolts, threads, and simple machine parts, from actual dimensions. Special attention is given to the care and handling of instruments, lettering, and methods of projection.

† *Seven hours a week for six weeks.* Fall term. MR. VOSE.

ELECTRICAL ENGINEERING

PROFESSOR WEBB; MR. DAVIS.

Ee 1. ELECTRICITY AND MAGNETISM.—This course continues the subject of electricity and magnetism begun in physics. The work is taken up by text-book, lectures and problems.

The text-book is Silvanus Thompson's Electricity and Magnetism. *Five hours a fortnight.* Fall term. Required of juniors in Electrical Engineering. MR. DAVIS.

Ee 2. ELECTRICITY AND MAGNETISM AND DYNAMO DESIGN.—A continuation of course 1, with the application of principles to the problems of dynamo design. The work is taken up by text-book, lectures and problems.

The text-book is Hawkins and Wallis's The Dynamo. *Five hours a fortnight.* Spring term. Required of juniors in Electrical Engineering. MR. DAVIS.

Ee 3. ELECTRICAL MACHINERY.—A course on the design and construction of direct current generators and motors. The work is taken by lectures and problems. *Five hours a fortnight.* Fall term. Required of seniors in Electrical Engineering. PROFESSOR WEBB.

Ee 4. ALTERNATING CURRENT MACHINERY.—In this course are considered the principles involved in the design, construction and operation of alternating current generators, motors, transformers and rotary converters.

The text-book is Jackson's Alternating Currents and Alternating Current Machinery. *Five hours a week for nine weeks.* Spring term. Required of seniors in Electrical Engineering. PROFESSOR WEBB.

Ee 5. DESIGN OF DIRECT CURRENT MACHINES.—This course is taken up in the drawing room. Each student is required to make the calculations and drawings of a direct current dynamo. † *Five hours a week.* Fall term. Required of seniors in Electrical Engineering. PROFESSOR WEBB.

Ee 6. DESIGN OF ALTERNATING CURRENT MACHINES.—A drawing room course similar to course 5. The calculations and drawings are made for an alternating current generator. †*Five hours a week for nine weeks*. First half spring term. Required of seniors in Electrical Engineering. PROFESSOR WEBB.

Ee 7. LABORATORY WORK, DIRECT CURRENTS.—Tests of electrical instruments. Experimental work with generators and motors. Power and photometric tests of electric lamps. Care and management of the college lighting plant. The charge for this course is \$5. †*Seven hours a week*. Fall term. Required of seniors in Electrical Engineering. MR. DAVIS.

Ee 8. LABORATORY WORK, ALTERNATING CURRENTS.—A course similar to course 7. Tests of alternating current instruments. Experimental work with generators, motors, transformers and rotary converters. †*Five hours a week for nine weeks*. First half of spring term. The charge for this course is \$2.50. Required of seniors in Electrical Engineering. MR. DAVIS.

Ee 9. DYNAMOS.—The general principles and theory of design. Different types of machines. Practical considerations in the construction and operation of direct current generators and motors. Connecting and starting up of generators and motors. Illustrations by laboratory experiments.

The text-book is Crocker's *Electric Lighting*. *Two hours a week*. Fall term. Required of juniors in Mechanical Engineering. MR. DAVIS.

Ee 10. DYNAMO LABORATORY WORK.—Practice in the connecting and running of direct current generators and motors. Tests for regulation, heating, efficiency and insulation. †*Five hours a week for nine weeks*. First half of spring term. Required of seniors in Mechanical Engineering. The charge for this course is \$2.50. MR. DAVIS.

Ee 13. ALTERNATING CURRENTS.—Theory of alternating currents. The text-book is Jackson's *Alternating Currents and Alternating Current Machinery*. *Five hours a fortnight*. Fall term. Required of seniors in Electrical Engineering. PROFESSOR WEBB.

Ee 14. ELECTRICAL ENGINEERING.—Polyphase alternating currents and wiring. Theory and construction of telegraph and telephone instruments. Methods of operating and testing. The course is taken by lectures. *Five hours a fortnight for nine weeks.* Last half of spring term. Required of seniors in Electrical Engineering. PROFESSOR WEBB.

Ee 16. THESIS WORK.—The designing of electrical apparatus, laboratory investigation, or commercial testing, with results presented in proper form. † *Fifteen hours a week for nine weeks.* Last half of spring term. Required of seniors in Electrical Engineering. PROFESSOR WEBB.

DRAWING

PROFESSOR GROVER; MR. BOARDMAN; MR. COLE.

Dr 1. DRAWING.—Free-hand work in perspective and model drawing; lettering.

† *Five hours a week.* Fall term. MR. COLE.

Dr 2. MATHEMATICAL DRAWING.—The plotting of functions, and the solution of equations by the graphic method.

The text-book is Harris and Hart's *Lessons in Mathematical Drawing.* † *Three hours a week for thirteen weeks.* Fall and spring terms. MR. COLE.

Dr 3. MECHANICAL DRAWING.—Instruction and practice in the care and use of drawing instruments, in the drawing of geometrical problems, and in the use of water colors. The text-book is Cole's *Notes on Mechanical Drawing.*

† *Five hours a week.* Spring term. MR. COLE.

Dr 4. MECHANICAL DRAWING.—Problems in shades and shadows, and dimension drawing.

† *Five hours a week.* Fall term. MR. COLE.

Dr 5. GENERAL DRAWING.—Isometric and cabinet projections, perspective, and the preparation of working drawings. Lectures and exercises in the drawing room.

† *Twelve hours a week for five weeks.* Spring term. MR. COLE.

Dr 6. DESCRIPTIVE GEOMETRY.—Elementary problems; tangents, intersection of planes, cylinders, cones, spheres, etc. The time is divided equally between the recitation room and drawing room.

The text-book is Church's Descriptive Geometry. *Five hours a fortnight.* Fall term. MR. BOARDMAN; MR. COLE.

Dr 7. DESCRIPTIVE GEOMETRY.—A continuation of course 6. *Three hours a fortnight.* Spring term. MR. BOARDMAN; MR. COLE.

Dr 8. STEREOTOMY.—The application of the methods of descriptive geometry to the preparation of drawings for arches, retaining walls, bridge abutments, piers, etc.

† *Twelve hours a week for five weeks.* Spring term. MR. COLE.

PHARMACY

PROFESSOR JACKMAN.

Pm 1. ELEMENTARY PHARMACY.—The history of pharmacopœias, dispensaries, etc.; weights and measures, specific gravity, the pharmaceutical uses of heat, distillation, solution, filtration, etc.; official preparations; pharmaceutical problems, involving percentage solutions, parts by weight and measure, chemical principles and equations, actual pharmacy operations.

The text-book is Caspari's Pharmacy. *Five hours a week.* Fall term.

Pm 2. GALENICAL PHARMACY.—The chemical elements, official salts, and inorganic acids, their preparation and classification; organic compounds, their classification, official preparations; official drugs of the materia medica, their preparations, animal preparations; extemporaneous pharmacy, the principles of dispensing, store management, etc.

The text-book is Caspari's Pharmacy. *Five hours a week.* Fall term.

Pm 3. LABORATORY PHARMACY.—Official preparations and tests. The operations of manufacturing pharmacy, including the preparation of granular and scale salts, infusions, syrups, tinc-

tures, and other galenicals; official tests of chemicals, drugs, and preparations, of identity, strength and adulteration; drug assaying.

The text-books are Caspari's Pharmacy and the U. S. Pharmacopœia. †*Twelve hours a week.* Fall term.

Pm 4. PHARMACOPŒIA.—A complete review of the pharmacopœia, with special reference to the chemical and pharmaceutical principles involved in tests and preparations.

The text-books are Caspari's Pharmacy and the U. S. Pharmacopœia. *Five hours a week.* Spring term.

Pm 5. INORGANIC PHARMACOGNOSY.—Nomenclature; practical exercises in the identification of specimens.

The text-book is the U. S. Pharmacopœia. *Five hours a fortnight.* Fall term.

Pm 6. ORGANIC PHARMACOGNOSY.—Nomenclature; habitat, etc.; practical exercises.

The text-books are the U. S. Pharmacopœia and Maisch's Materia Medica. *Four hours a week.* Spring term.

Pm 7. MATERIA MEDICA.—Chemicals and drugs, their nature, uses, classification, therapeutic action, and doses; poisons, and antidotes.

The text-book is Potter's Materia Medica. *Five hours a fortnight.* Fall term.

Pm 8. THESIS WORK.—The thesis must embody the results of original work in analysis, or research. †*Twelve hours a week for nine weeks.* Spring term.

Pm 9. PHARMACY READINGS.—Current pharmacy literature; research and reference readings; abstracting; reports. †*Five hours a week.* Spring term.

Pm 10. LABORATORY PHARMACY.—A continuation of Pm 3. †*Five hours a week.* Spring term.

Pm II. PRESCRIPTIONS.—Critical examination of prescriptions from actual files, with reference to inelegance, physiological, pharmaceutical, and chemical incompatibility; doses; methods and order of compounding, etc.

The text-book is Ruddiman's *Incompatibilities in Prescriptions*. *Five hours a fortnight*. Spring term.

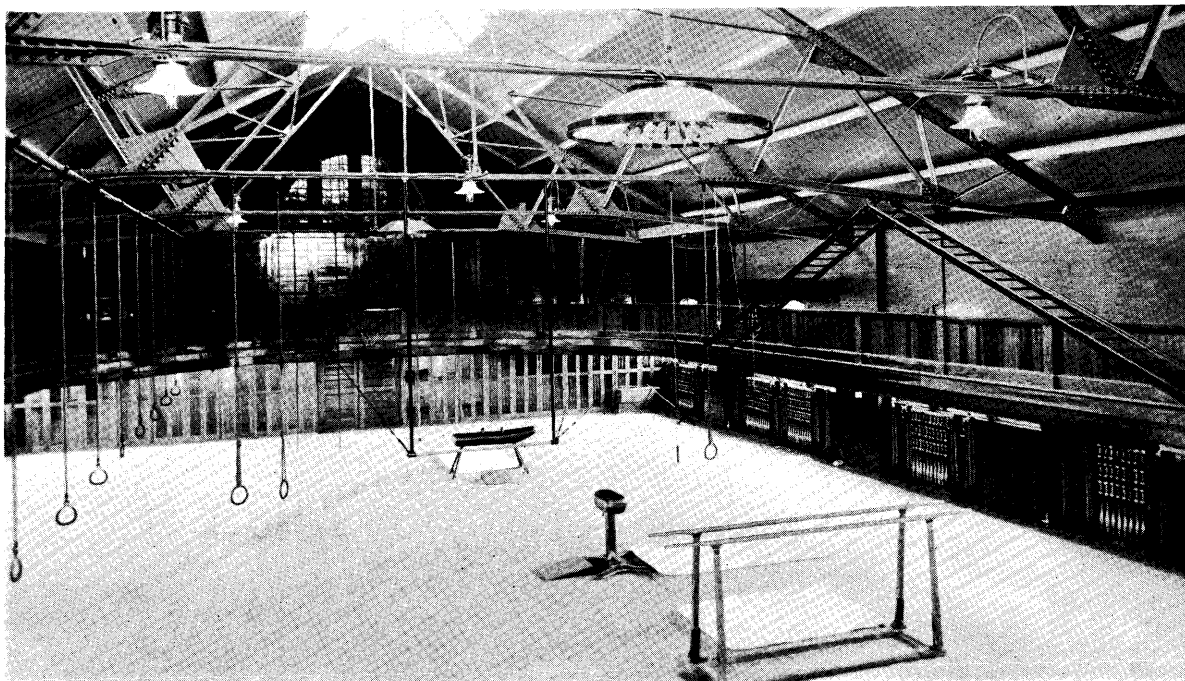
MILITARY SCIENCE AND TACTICS

PROFESSOR RUNKLE.

Each man student is required to take military drill, unless physically unfit, and to attend recitations in military science, during the first two years of his college course. In the junior and senior years this work is elective. The drill, course 1, occupies the whole of the fall term and the first ten weeks of the spring term, one hour a day, three days in the week, counting one and one-half hours in reckoning the student's total time. Members of the sophomore class are not required to drill in the spring term, however, but are required to attend lectures and recitations in military science during the whole term, course 2, three hours a fortnight.

Mt I. MILITARY DRILL.—(a.) School of the soldier, school of the company, school of the battalion, and extended order movements. (b.) Target practice at known distances up to six hundred yards. Marksman's buttons are awarded to cadets who qualify. (c.) Military signaling with flag, lantern, heliograph, and field telegraph. (d.) Band practice. †*Three hours a week for the fall term and the first ten weeks of the spring term.*

Mt 2. ELEMENTS OF MILITARY SCIENCE.—Organization, equipment and supply of armies, camp sanitation, etc., conducted by text-book and lectures. *Three hours a fortnight*. Spring term.



THE DRILL HALL AND GYMNASIUM

ORGANIZATION OF THE UNIVERSITY

The University is divided into colleges, each offering several courses upon related subjects. The colleges are interdependent and together form a unit. The organization is as follows:

COLLEGE OF ARTS AND SCIENCES

- The Classical Course
- The Latin-Scientific Course
- The Scientific Course
- The Chemical Course
- The Preparatory Medical Course

COLLEGE OF AGRICULTURE

- The Agricultural Course
- The Special Courses in General Agriculture
- The Special Course in Horticulture
- The Special Course in Dairying
- The Special Course in Poultry Management
- The Agricultural Experiment Station

COLLEGE OF ENGINEERING

- The Civil Engineering Course
- The Mechanical Engineering Course
- The Electrical Engineering Course
- The Mining Engineering Course

COLLEGE OF PHARMACY

- The Pharmacy Course
- The Short Course in Pharmacy

SCHOOL OF LAW

EXPLANATION OF TABLES.

The college year is divided equally into a fall term and a spring term. The year of the School of Law is divided into three terms, the fall, winter, and spring terms, of eleven, ten, and eleven weeks respectively. For details see the calendar.

The quota of studies prescribed for each student is, for a minimum, fifteen hours, and for a maximum, twenty hours of class-room work each week, exclusive of declamations and themes. The tables are made so as to require, with the military work of three hours a fortnight, approximately eighteen hours' work each week. The figures in the tables show the average number of hours a week given to each study. The figures 2.5 mean three hours one week and two the next. In making up the quota of studies, laboratory work and other exercises not requiring preparation count as half time—that is, two hours in the laboratory are counted as equivalent to one hour. The hours devoted to such studies are marked with a dagger (†) in the tables.

The abbreviations and numerals preceding a study refer to the explanatory statements to be found on the pages given.

COLLEGE OF ARTS AND SCIENCES

The aim of this college is to furnish a liberal education and to afford opportunity for specialization along literary, philosophical, and general and special scientific lines. The college comprises:

The Classical Course

The Latin-Scientific Course

The Scientific Course

The Chemical Course

The Preparatory Medical Course

THE CLASSICAL COURSE

This course is planned for those who desire general culture. About two thirds of the work is elective. The required work includes Greek, Latin, mathematics, English, French, German, chemistry, psychology, and political economy. After the freshman year Greek and Latin are elective. The student may give special attention to language, mathematics, natural science, chemistry, or physics.

At graduation the student receives the degree of Bachelor of Arts. Upon the completion of one year's prescribed graduate work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Arts.

STUDIES OF THE CLASSICAL COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.		SPRING TERM—18 WEEKS.	
	Hours.		Hours.
Gk1, Greek, p. 51.....	4.0	Gk2, Greek, p. 51.....	4.0
Lt1, Latin, p. 53.....	4.0	Lt2, Latin, p. 53.....	4.0
Gm2a, German, p. 58 or }.....	2.5	Gm2b, German, p. 58 or {.....	2.5
Rm2a, French, p. 56 }.....	2.0	Rm2b, French, p. 56 {.....	2.5
Ms2, Algebra, p. 63.....	2.0	Ms3, Algebra, p. 63.....	2.5
Ms4, Trigonometry, p. 64.....	3.0	Ms1, Solid Geometry, p. 63.....	2.5
Dr2, Math. Drawing, p. 85, 8 w.....	†3.0	Dr2, Math. Drawing, p. 85, 5 w.....	†3.0

SOPHOMORE YEAR.

<i>Required.</i>		<i>Required.</i>	
Gm1, German, p. 57 or }.....	4.0	Gm2, German, p. 58 or {.....	4.0
Rm1, French, p. 56 }.....	2.5	Rm2, French, p. 56 {.....	2.5
Eh3, Rhetoric, p. 59.....	2.5	Eh4, Rhetoric, p. 59.....	2.5
Ch1, General Chemistry, p. 68.....	2.5	Ch2, General Chemistry, p. 68.....	2.5
Ch3, Laboratory Chemistry, p. 68.....	2.0	Ch4, Laboratory Chemistry, p. 68.....	†2.0
<i>Elective.</i>		<i>Elective.</i>	
Gk3, Greek, p. 51.....	2.5	Gk4, Greek, p. 51.....	2.5
Gk9, Greek Sculpture, p. 52.....	2.5	Gk10, Greek Sculpture, p. 52.....	2.5
Gk11, Greek, p. 52.....	2.5	Gk12, Greek, p. 52.....	2.5
Gk13, Greek, p. 52.....	2.5	Gk14, Greek Religion, p. 52.....	2.5
Gk18, Greek Composition, p. 53.....	1.0	Gk15, Greek Composition, p. 53.....	1.0
At1, Italian Art, p. 53.....	1.0	Gk19, Greek Composition, p. 53.....	1.0
At3, Italian Art, p. 53.....	1.0	At2, Italian Art, p. 53.....	1.0
Lt3, Latin, p. 54.....	2.5	At4, Italian Art, p. 53.....	1.0
Gm3a, German, p. 58.....	2.5	Lt4, Latin, p. 54.....	2.5
Rm3a, French, p. 56.....	2.5	Gm3b, German, p. 58.....	2.5
Cv1, General History, p. 62.....	2.5	Rm3b, French, p. 56.....	2.5
Ms6, Analytical Geometry, p. 64.....	5.0	Eh5, Old English, p. 59.....	2.5
Ps1, General Physics, p. 66.....	5.0	Ms5, Analytical Geometry, p. 64.....	2.5
Ps2, General Physics, p. 67.....	2.5	Ms7, Calculus, p. 64.....	5.0
Ch5, Inorganic Chemistry, p. 68.....	2.5	Ms11, Advanced Algebra, p. 65.....	2.5
Ch14, Qualitative Analysis, p. 69.....	†5.0	Ps2, General Physics, p. 66.....	2.5
Bl1, General Biology, p. 71.....	2.5	Ps13, General Physics, p. 67.....	2.5
B12, Laboratory Biology, p. 72.....	†5.0	Ps5, Laboratory Physics, p. 66.....	†5.0
		Ch6, Inorganic Chemistry, p. 60.....	2.5
		Ch15, Qualitative Analysis, p. 70.....	†5.0
		Ag13, Bacteriology, p. 75, 9 w.....	†5.0
		H5, Histol. of Plants, p. 77, 9 w.....	†5.0
		H1, Botany, p. 76.....	†5.0
		Dr3, Mechanical Drawing, p. 85.....	†5.0

JUNIOR YEAR.

<i>Required.</i>		<i>Required.</i>	
Pl1, Psychology, p. 60.....	2.5	Pl2, Logic, p. 61.....	2.5
<i>Elective.</i>		<i>Elective.</i>	
Gk5, Greek, p. 51.....	2.5	Gk6, Greek, p. 51.....	2.5
Lt5, Latin, p. 54.....	2.5	Lt6, Latin, p. 54.....	2.5
Lt7, Roman Elegiac Poets, p. 54.....	2.5	Lt8, Roman Elegiac Poets, p. 54.....	2.5
Lt13, Roman Literature, p. 55.....	2.5	Lt14, Roman Literature, p. 55.....	2.5
Lt15, Roman Rhetoric and Oratory, p. 55.....	2.5	Lt. 16, Roman Rhetoric and Oratory, p. 55.....	2.5
Lt17, Roman Topography, p. 55.....	1.0	Lt18, Roman Private Life, p. 55.....	1.0
Lt19, Latin Writing, p. 56.....	1.0	Lt20, Roman Epigraphy, p. 56.....	1.0
Gm3a, German, p. 58.....	2.5	Gm3b, German, p. 58.....	2.5
Gm4a, German, p. 58.....	2.5	Gm4b, German, p. 58.....	2.5
Rm3a, French, p. 56.....	2.5	Rm3b, French, p. 56.....	2.5

JUNIOR YEAR—*Concluded.*

Rm4a, French, p. 56.....	2.5	Rm4b, French, p. 57	2.5
Rm9a, Spanish, p. 57.....	2.5	Rm9b, Spanish, p. 57.....	2.5
Rm11a, Italian, p. 57.....	2.5	Rm11b, Italian, p. 57.....	2.5
P19, History of Education, p. 62.	2.5	P14, Pedagogy, p. 61.....	2.5
Cv3, American History, p. 62 ...	2.0	P18, Experimental Psychology,	
Cv4, Philosophy of History, p. 62	2.5	p. 61	†2.0
Cv11, International Law, p. 62 ..	2.5	Cv2, English History, p. 52	2.5
Ms8, Calculus, p. 64.	2.5	Cv17, American History, p. 63...	2.0
Ms9, Desc. Astronomy, p. 64.	2.5	Ms10, Practical Astronomy, p. 64	2.5
Ms12, Advanced Integral Calculus,		Ms13, Adv. Integ. Calculus, p. 65	2.5
p. 65.....	2.5	Ms15, Differential Equations,	
Ms20, Solid Analytical Geometry,		p. 65.....	2.5
p. 65.....	2.5	Ps7, Adv. Optics, p. 66.....	2.5
Ps8, Advanced Physics, p. 67....	2.5	Ps10, Lab. Physics, p. 67	†5.0
Ps9, Lab. Physics, p. 67.....	†5.0	Ch13, Mineralogy, p. 69.....	†2.0
Ps11, Electrical Measurement		B17, Zoology, p. 72.....	2.5
and Testing, p. 67....	†4.0	B18, Lab. Zoology, p. 72	†5.0
B15, Zoology, p. 72.....	2.5	Ce7, Mechanics, p. 79.....	5.0
B16, Lab. Zoology, p. 72	†5.0	Ee2, Electricity and Magnetism,	
B111, Entomology, p. 73	2.5	p. 83.....	2.5
Ce6, Mechanics, p. 79	5.0		
Ee1, Electricity and Magnetism,			
p. 83.....	2.5		

SENIOR YEAR.

<i>Required.</i>		<i>Required.</i>	
Cv15, Constitutional Law and History, p. 63	2.5	Cv16, Constitutional Law and History, p. 63.....	2.5
<i>Elective.</i>		<i>Elective.</i>	
Gk7, Greek, p. 52.....	2.5	Gk8, Greek, p. 52.	2.5
Lt9, Roman Satire, p. 54.	2.5	Lt10, Roman Satire, p. 54.....	2.5
Lt11, Roman Philosophy, p. 54 ..	2.5	Lt12, Roman Philosophy, p. 55..	2.5
Lt15, Roman Rhetoric and Oratory,		Lt16, Roman Rhetoric and Oratory,†	
p. 55.....	2.5	p. 55.....	2.5
Gm4a, German, p. 58.....	2.5	Gm4b, German, p. 58.	2.5
Gm5a, German, p. 58.....	2.5	Gm5b, German, p. 58.....	2.5
Rm4a, French, p. 56.....	2.5	Rm4b, French, p. 57.....	2.5
Rm5a, French, p. 57.....	2.5	Rm5b, French, p. 57.....	2.5
Eh10, English Literature, p. 60..	2.5	Eh11, English Literature, p. 60..	2.5
Eh12, English Literature, p. 60 ..	2.5	Eh13, English Literature, p. 60..	2.5
P13, History of Philosophy, p. 61.	2.5	Cv12, Library Work, p. 62.....	†5.0
Cv13, Political Economy, p. 63..	2.5	Cv14, Political Economy, p. 63...	2.5
Ms12, Adv. Integ. Calculus, p. 65	2.5	Ms13, Adv. Integ. Calculus, p. 65.	2.5
Ms16, Practical Astronomy, p. 65	2.5	Ms15, Differential Equations, p. 65	2.5
Ms20, Solid Analytical Geometry,		Ms17, Practical Astronomy, p. 65	2.5
p. 65.....	2.5	B19, Physiology, p. 72.	2.5
B13, Geology, p. 73.....	2.5	B10, Lab. Physiology, p. 73	†5.0
B14, Adv. Zoology, p. 73.....	2.5	B14, Adv. Zoology, p. 73.....	†2.5
H7, Lab. Horticulture, p. 77.....	†4.0		
H9, Plant Breeding, p. 76.....	2.5		
Ht10, Forestry, p. 77.....	2.5		

THE LATIN-SCIENTIFIC COURSE

This course differs from the classical course by omitting Greek. It requires an extensive study of modern languages, and permits a wide choice of elective work.

The required studies include Latin, English, and modern languages, mathematical and physical science, and political economy. Latin is not required, but may be elected, after the freshman year. By a proper selection of elective studies, the student may give special attention to language, mathematics, natural science, chemistry, or physics.

At graduation the student receives the degree of Bachelor of Philosophy. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Philosophy.

STUDIES OF THE LATIN-SCIENTIFIC COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.		[SPRING TERM—18 WEEKS.	
	Hours.		Hours.
Lt1, Latin, p. 53	4.0	Lt2, Latin, p. 53	4.0
Gm2a, German, p. 58 or	2.5	Gm2b, German, p. 58 or	2.5
Rm2a, French, p. 58		Rm2b, French, p. 56	
Ms2, Algebra, p. 63	2.0	Ms3, Algebra, p. 63	2.5
Ms4, Trigonometry, p. 64	3.0	Ms1, Solid Geometry, p. 63 or	2.5
Ch1, General Chemistry, p. 68	2.5	Ms19, Sph. Trigonometry, p. 65	
Ch3, Laboratory Chemistry, p. 68	†2.0	Ch2, General Chemistry, p. 68	2.5
Dr2, Math. Drawing, p. 85, 8 w	†3.0	Ch4, Lab. Chemistry, p. 68	†2.0
		Dr2, Math. Drawing, p. 85, 5 w	†3.0

SOPHOMORE YEAR.

<i>Required.</i>		<i>Required.</i>	
Gm1, German, p. 57 or	4.0	Gm2, German, p. 58 or	4.0
Rm1, French, p. 56		Rm2, French, p. 56	
Eh3, Rhetoric, p. 59	2.5	Eh4, Rhetoric, p. 59	2.5
Ps1, General Physics, p. 66 or	5.0	Ps2, General Physics, p. 66, or	2.5
Ps12, General Physics, p. 67	2.5	Ps13, General Physics, p. 67	
<i>Elective.</i>		<i>Elective.</i>	
Gk9, Greek Sculpture, p. 52	2.5	Gk10, Greek Sculpture, p. 52	2.5
Gk11, Greek, p. 52	2.5	Gk12, Greek, p. 52	2.5
Gk13, Greek, p. 52	2.5	Gk14, Greek Religion, p. 52	2.5
At1, Italian Art, p. 53	1.0	At2, Italian Art, p. 53	1.0
At3, Italian Art, p. 53	1.0	At4, Italian Art, p. 53	1.0
Lt3, Latin, p. 54	2.5	Lt4, Latin, p. 54	2.5
Gm3a, German, p. 58	2.5	Gm3b, German, p. 58	2.5
Rm3a, French, p. 56	2.5	Rm3b, French, p. 56	2.5
Cv1, General History, p. 62	2.5	Eh5, Old English, p. 59	2.5
Ms6, Analytical Geometry, p. 64	5.0	Ms5, Analytical Geometry, p. 64	2.5
Ch5, Inorganic Chemistry, p. 68	2.5	Ms7, Calculus, p. 64	5.0
Ch14, Qualitative Analysis, p. 69	†5.0	Ms11, Advanced Algebra, p. 65	2.5
Bl1, General Biology, p. 71	2.5	Ps5, Lab. Physics, p. 66	†5.0
Bl2, Lab. Biology, p. 72	†5.0	Ch6, Inorganic Chemistry, p. 69	2.5
		Ch15, Qualitative Analysis, p. 70	†5.0
		Ag13, Bacteriology, p. 75, 9 w	†5.0
		Ht8, Histology of Plants, p. 77,	
		9 w	
		Ht1, Botany, p. 76	†5.0
		Dr3, Mechanical Drawing, p. 85	†5.0

JUNIOR YEAR.

<i>Required.</i>		<i>Required.</i>	
Eh8, English Literature, p. 60....	2.5	Eh9, English Literature, p. 60....	2.5
Pl1, Psychology, p. 60	2.5	Pl2, Logic, p. 61.....	2.5
<i>Elective.</i>			
Lt5, Latin, p. 54	2.5	Lt6, Latin, p. 54.....	2.5
Lt7, Roman Elegiac Poets, p. 54.	2.5	Lt8, Roman Elegiac Poets, p. 54	2.5
Lt13, Roman Literature, p. 55....	2.5	Lt14, Roman Literature, p. 55...	2.5
Lt15, Roman Rhetoric and Ora-		Lt16, Roman Rhetoric and Ora-	
tory, p. 55	2.5	tory, p. 55	2.5
Lt17, Roman Topography, p. 55...	1.0	Lt18, Roman Private Life, p. 55.	1.0
Lt19, Latin Writing, p. 56....	1.0	Lt20, Roman Epigraphy, p. 56 ...	1.0
Gm3a, German, p. 58	2.5	Gm3b, German, p. 55.....	2.5
Gm4a, German, p. 58	2.5	Gm4b, German, p. 58.....	2.5
Rm3a, French, p. 56.....	2.5	Rm3b, French, p. 56	2.5
Rm4a, French, p. 56.....	2.5	Rm4b, French, p. 57	2.5
Rm9a, Spanish, p. 57	2.5	Rm9b, Spanish, p. 57	2.5
Rm11a, Italian, p. 57	2.5	Rm11b, Italian, p. 57.....	2.5
Pl9, History of Education, p. 62.	2.0	Pl4, Pedagogy, p. 61	2.5
Cv3, American History, p. 62....	2.0	Pl8, Experimental Psychology,	
Cv4, Philosophy of History, p. 62	2.5	p. 61	12.0
Cv11, International Law, p. 62....	2.5	Cv2, English History, p. 62.....	2.5
Ms8, Calculus, p. 64	2.5	Cv17, American History, p. 63 ...	2.0
Ms9, Desc. Astronomy, p. 64.....	2.5	Ms10, Practical Astronomy, p. 64	2.5
Ms12, Adv. Integral Calculus, p. 65	2.5	Ms13, Adv. Integral Calculus,	
Ms20, Solid Analytical Geome-		p. 65.....	2.5
try, p. 65.....	2.5	Ms15, Differential Equations, p. 65	2.5
Ps8, Advanced Physics, p. 67....	2.5	Ps7, Advanced Optics, p. 66.....	2.5
Ps9, Lab. Physics, p. 67	15.0	Ps10, Laboratory Physics, p. 67 ..	15.0
Ps11, Electrical Measurement		Ch18, Mineralogy, p. 69.....	12.0
and Testing, p. 67.....	14.0	B17, Zoology, p. 72	2.5
B15, Zoology, p. 72.....	2.5	B18, Lab. Zoology, p. 72.....	15.0
B16, Laboratory Zoology, p. 72..	15.0	Ce7, Mechanics, p. 79.....	5.0
B111, Entomology, p. 73	2.5	Ee2, Electricity and Magnetism,	
Ce6, Mechanics, p. 78.....	5.0	p. 83.....	2.5
Ee1, Electricity and Magnetism,			
p. 83.....	2.5		

SENIOR YEAR.

<i>Required.</i>		<i>Required.</i>	
Cv13, Political Economy, p. 63 ..	2.5	Cv14, Political Economy, p. 63 ..	2.5
Cv15, Constitutional Law and		Cv16, Constitutional Law and	
History, p. 63	2.5	History, p. 63.....	2.5
<i>Elective.</i>			
Lt9, Roman Satire, p. 54.....	2.5	Lt10, Roman Satire, p. 54.....	2.5
Lt11, Roman Philosophy, p. 54 ..	2.5	Lt12, Roman Philosophy, p. 55 ..	2.5
Lt15, Roman Rhetoric and Ora-		Lt16, Roman Rhetoric and Ora-	
tory, p. 55.....	2.5	tory, p. 55.....	2.5
Gm4a, German, p. 58	2.5	Gm4b, German, p. 58	2.5
Gm5a, German, p. 58	2.5	Gm5b, German, p. 58	2.5
Rm4a, French, p. 56.....	2.5	Rm4b, French, p. 57	2.5
Rm5a, French, p. 57	2.5	Rm5b, French, p. 57	2.5
Eh10, English Literature, p. 60 ..	2.5	Eh11, English Literature, p. 60 ..	2.5
Eh12, English Literature, p. 60 ..	2.5	Eh13, English Literature, p. 60 ..	2.5
Pl3, Hist. of Philosophy, p. 61....	2.5	Cv12, Library Work, p. 62.....	15.0
Ms12, Advanced Integral Calcu-		Ms13, Advanced Integral Calcu-	
lus, p. 65	2.5	lus, p. 65	2.5
Ms16, Practical Astronomy, p. 65	2.5	Ms15, Differential Equations, p. 65	2.5
Ms20 Solid Analytical Geometry,		Ms17, Practical Astronomy, p. 65	2.5
p. 65.....	2.5	Ps16, Lab. Physics, p. 68	15.0
Ps15, Lab. Physics, p. 67.....	15.0	B19, Physiology, p. 72.	2.5
B13, Geology, p. 73	2.5	B10, Lab. Physiology, p. 73.....	15.0
B14, Adv. Zoology, p. 73.....	2.5	B14, Adv. Zoology, p. 73.....	2.5
Ht7, Lab. Horticulture, p. 77.....	14.0		
Ht9, Plant Breeding, p. 77.....	2.5		
Ht10, Forestry, p. 77.....	2.5		

THE SCIENTIFIC COURSE

This course is arranged for those who seek a broad general training, based chiefly upon the study of science, modern languages, and history. It furnishes an admirable preparation for executive positions in banking, commercial, or manufacturing establishments, or for teaching.

The work of the freshman year consists of English, modern languages, history, mathematics, drawing, chemistry, and botany. After the freshman year, a large part of the work—varying from one third at the beginning to three fourths at the end—is elective. The required courses include analytical geometry, general physics, French, German, English literature, English history, United States history, constitutional history, psychology, logic, and political economy. The elective studies may be selected to give a comprehensive course in the mathematical or natural sciences, or a specialized course in modern languages, mathematics, physics, or natural science.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science.

STUDIES OF THE SCIENTIFIC COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.		SPRING TERM—18 WEEKS.	
	Hours.		Hours.
Gm1, German, p. 57 or	} 4.0	Gm2, German, p. 58 or	} 4.0
Rm1, French, p. 55		Rm2, French, p. 56	
Eh3, Rhetoric, p. 59	..... 2.5	Eh4, Rhetoric, p. 59	..... 2.5
Ms2, Algebra, p. 63	..... 2.0	Ms3, Algebra, p. 63	..... 2.5
Ms4, Trigonometry, p. 64	..... 3.0	Ms1, Solid Geometry, p. 63 or	} .. 2.5
Ch1, General Chemistry, p. 68	..... 2.5	Ms19, Sph. Trigonom., p. 65	
Ch3, Laboratory Chemistry, p. 68	±2.0	Ch2, General Chemistry, p. 68	..... 2.5
Dr2, Math. Drawing, p. 85, 8-w	.. ±3.0	Ch4, Laboratory Chemistry, p. 68	±2.0
		Ht1, General Botany, p. 76	..... ±5.0
		Dr2, Math. Drawing, p. 85, 5-w	.. ±3.0

SOPHOMORE YEAR.

<i>Required.</i>		<i>Required.</i>	
Gm2a, German, p. 58 or	} 2.5	Gm2b, German, p. 58 or	} 2.5
Rm2a, French, p. 56		Rm2b, French, p. 56	
Ps1, General Physics, p. 66 or	} . 5.0	Ms5, Analytical Geometry, p. 64	..... 2.5
Ps12, General Physics, p. 67		} . 2.5	Ps2, General Physics, p. 66 or	} .. 2.5
		Ps13, General Physics, p. 67	..... 2.5
		Ps5, Laboratory Physics, p. 66	.. ±5.0

SOPHOMORE YEAR—Concluded.

<i>Elective.</i>		<i>Elective.</i>	
Gk9, Greek Sculpture, p. 52.....	2.5	Gk10, Greek Sculpture, p. 52. ...	2.5
Gk11, Greek, p. 52.....	2.5	Gk12, Greek, p. 52.....	2.5
Gk13, Greek, p. 52.....	2.5	Gk14, Greek Religion, p. 52.....	2.5
At1, Italian Art, p. 53.....	1.0	At2, Italian Art, p. 53.....	1.0
At3, Italian Art, p. 53.....	1.0	At4, Italian Art, p. 53.....	1.0
Gm3a, German, p. 58.....	2.5	Gm3b, German, p. 58.....	2.5
Rm3a, French, p. 56.....	2.5	Rm3b, French, p. 56.....	2.5
Cv1, General History, p. 62.....	2.5	Eh5, Old English, p. 59.....	2.5
Ms6, Analytical Geometry, p. 64.....	5.0	Ms7, Calculus, p. 64.....	5.0
Ch5, Inorganic Chemistry, p. 68..	2.5	Ms11, Advanced Algebra, p. 65..	2.5
Ch14, Qualitative Analysis, p. 69	†5.0	Ch6, Inorganic Chemistry, p. 69..	2.5
B11, General Biology, p. 71.....	2.5	Ch15, Qualitative Analysis, p. 70	†5.0
B12, Laboratory Biology, p. 72...	†5.0	Ag13, Bacteriology, p. 75, 9 w. }	†5.0
		Ht8, Histol. of Plants, p.77, 9 w. }	†5.0

JUNIOR YEAR.

<i>Required.</i>		<i>Required.</i>	
Gm3a, German, p. 58 or {.....	2.5	Gm3b, German, p. 58 or {.....	2.5
Rm3a, French, p. 56.....	2.5	Rm3b, French, p. 56.....	2.5
Eh8, English Literature, p. 60....	2.5	Eh9, English Literature, p. 60....	2.5
P11, Psychology, p. 60.....	2.5	P12, Logic, p. 61.....	2.5
Cv3, American History, p. 62....	2.0	Cv2, English History, p. 62.....	2.5
<i>Elective.</i>		<i>Elective.</i>	
Gm4a, German, p. 58.....	2.5	Gm4b, German, p. 58.....	2.5
Rm4a, French, p. 56.....	2.5	Rm4b, French, p. 57.....	2.5
Rm9a, Spanish, p. 57.....	2.5	Rm9b, Spanish, p. 57.....	2.5
Rm11a, Italian, p. 57.....	2.5	Rm11b, Italian, p. 57.....	2.5
P19, History of Education, p. 62..	2.5	P14, Pedagogy, p. 61.....	2.5
Cv4, Philosophy of History, p. 62	2.5	P18, Experimental Psychology,	
Cv11, International Law, p. 62....	2.5	p. 61.....	†2.0
Ms8, Calculus, p. 64.....	2.5	Ms10, Practical Astronomy, p. 64	2.5
Ms9, Desc. Astronomy, p. 64.....	2.5	Ms13, Adv. Integ. Calculus, p. 65	2.5
Ms12, Adv. Integ. Calculus, p. 65	2.5	Ms15, Differential Equations, p.65	2.5
Ms20, Solid Analy. Geometry, p.65	2.5	Ps7, Advanced Optics, p. 66.....	2.5
Ps8, Adv. Physics, p. 67.....	2.5	Ps10, Laboratory Physics, p. 67..	†5.0
Ps9, Lab. Physics, p. 67.....	†5.0	Ch13, Mineralogy, p. 69.....	†2.0
Ps11, Electrical Measurement		B17, Zoology, p. 72.....	2.5
and Testing, p. 67.....	†4.0	B18, Laboratory Zoology, p. 72..	†5.0
B15, Zoology, p. 72.....	2.5	Ce7, Mechanics, p. 79.....	5.0
B16, Laboratory Zoology, p. 72..	†5.0	Ee2, Electricity and Magnetism,	
B11, Entomology, p. 73.....	2.5	p. 83.....	2.5
Ce6, Mechanics, p. 78.....	5.0		
Ee1, Electricity and Magnetism,			
p. 83.....	2.5		

SENIOR YEAR.¹

<i>Required.</i>		<i>Required.</i>	
Cv13, Political Economy, p. 63 ..	2.5	Cv14, Political Economy, p. 63 ..	2.5
Cv15, Constitutional Law and		Cv16, Constitutional Law and	
History, p. 63.....	2.5	History, p. 63.....	2.5
<i>Elective.</i>		<i>Elective.</i>	
Gm4a, German, p. 58.....	2.5	Gm4b, German, p. 58.....	2.5
Gm5a, German, p. 58.....	2.5	Gm5b, German, p. 58.....	2.5
Rm4a, French, p. 56.....	2.5	Rm4b, French, p. 56.....	2.5
Rm5a, French, p. 57.....	2.5	Rm5b, French, p. 57.....	2.5
Eh10, English Literature, p. 60..	2.5	Eh11, English Literature, p. 60..	2.5
Eh12, English Literature, p. 60 ..	2.5	Eh13, English Literature, p. 60..	2.5
P13, Hist. of Philosophy, p. 61 ..	2.5	Cv12, Library Work, p. 62.....	†5.0
Ms12, Adv. Integ. Calculus, p. 65	2.5	Ms13, Adv. Integ. Calculus, p. 65	2.5
Ms16, Practical Astronomy, p. 65	2.5	Ms15, Differential Equations, p.65	2.5

SENIOR YEAR—*Concluded.*

Ms20, Solid Analytical Geome- try, p. 65.....	2.5	Ms17, Practical Astronomy, p. 65	2.5
Ps15, Laboratory Physics, p. 67..	15.0	Ps16, Laboratory Physics, p. 68..	15.0
Bl13, Geology, p. 73.	2.5	Bl9, Physiology, p. 72.....	2.5
Bl14, Advanced Zoology, p. 73...	2.5	Bl10, Lab. Physiology, p. 73.....	15.0
Ht7, Lab. Horticulture, p. 77....	14.0	Bl14, Advanced Zoology, p. 73...	2.5
Ht9, Plant Breeding, p. 77.....	2.5		
Ht10, Forestry, p. 77.....	2.5		

THE CHEMICAL COURSE

This course is designed for those who plan to become professional chemists and analysts, managers or chemists of industries which require an extensive knowledge of chemistry, or teachers of chemistry. Attention is given to preparation for the work of the agricultural experiment stations. In addition to a theoretical knowledge of chemistry, the student acquires, in his biological studies, knowledge of comparative anatomy, and of the lower forms of life, and, in his work in the laboratories, facility in the manipulation of chemical apparatus and the microscope.

Lectures and recitations are closely associated with practical work in the laboratories. The student is drilled in the use of chemical apparatus, in accurate observation, and in careful interpretation of directions.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science.

STUDIES OF THE CHEMICAL COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.

SPRING TERM—WEEKS.

	Hours.		Hours.
Gm1, German, p. 57 or	} 4.0	Gm2, German, p. 58 or	} 4.0
Gm2a, German, p. 58 (2.5)		Gm2b, German, p. 58 (2.5)	
Eh3, Rhetoric, p. 59.....	2.5	Eh4, Rhetoric, p. 59.....	2.5
Ms2, Algebra, p. 63.....	2.0	Ms3, Algebra, p. 63.....	2.5
Ms4, Trigonometry, p. 64.....	3.0	Ms1, Solid Geometry, p. 63 or	} 2.5
Ch1, General Chemistry, p. 68 ...	2.5	Ms19, Sph. Trigonometry, p. 65	
Ch3, Laboratory Chemistry, p. 68	12.0	Ch2, General Chemistry, p. 68 ...	2.5
Dr1, Drawing, p. 85.	15.0	Ch4, Laboratory Chemistry, p.68	12.0
Dr2, Math. Drawing, p. 85, 8 w....	13.0	Ht1, General Botany, p. 76. . . .	15.0
		Dr2, Math. Drawing, p. 85, 5 w ..	13.0

SOPHOMORE YEAR.

Gm3a, German, p. 58	2.5	Gm3b, German, p. 58	2.5
Rm1, French, p. 56 or	}	Rm2, French, p. 56	}
Rm2a, French, p. 56 (2.5)		4.0		Rm2b, French, p. 56 (2.5)	4.0
Ps12, General Physics, p. 67.....	2.5	Ms5, Analytical Geometry, p. 64	2.5
Ch5, Inorganic Chemistry, p. 68.	2.5	Ps5, Laboratory Physics, p. 66...	†5.0
Ch14, Qualitative Analysis, p. 69,†10.0		Ps13, General Physics, p. 67..	2.5
B11, General Biology, p. 71.....	2.5	Ch6, Inorganic Chemistry, p. 69..	2.5
B12, Laboratory Biology, p. 72... †5.0		Ch15, Qualitative Analysis, p. 70, †7.0	

JUNIOR YEAR.

Gm4a, German, p. 58 or	}	Gm4b, German, p. 58 or	}
Rm3a, French, p. 56		2.5		Rm3b, French, p. 56	2.5
P11, Psychology, p. 60	2.5	P12, Logic, p. 61	2.5
Ch7, Organic Chemistry, p. 69 ...	2.5	Ch8, Organic Chemistry, p. 69 ...	2.5
Ch10, Analytical Methods, p. 69..	1.0	Ch19, Volumetric Analysis and	}
Ch16, Quan. Analysis, p. 70	†5.0	Assaying, p. 70.....		†15.0
Ch18, Quan. Analysis, p. 70.....	†10.0	Eh9, Eng. Literature, p. 60 or	}
P14, Pedagogy, p. 61 or	}	Cv2, English History, p. 62 or		2.5
Eh8, English Literature, p. 60 or		}	
Eel, Electricity and Magne-	}		
tism, p. 83 or		2.5	
Ms9, Descrip. Astronomy, p. 64			

SENIOR YEAR.

Cv13, Political Economy, p. 63... 2.5	Cv14, Political Economy, p. 63... 2.5
Cv15, Constitutional Law and History, p. 63..... 2.5	Cv16, Constitutional Law and History, p. 63..... 2.5
Ch12, Organic Chemicals, p. 69 .. †5.0	Ch11, Laboratory Processes, p. 69 2.5
Ch20, Agricultural Analysis, p. 70 †9.0	Ch24, Industrial Chemistry, p. 71 2.5
Ch21, Toxicology and Urinalysis, p. 70..... †1.0	Ch28, Dyeing, p. 71, 2 w. †15
Ch23, Organic Chemistry, p. 71 .. 2.5	Ch22, Thesis Work, p. 71, 11 w. †15 } †15.0
B113, Geology, p. 73 ... 2.5	Ag13, Bacteriology, p. 75.5 w. †10

THE PREPARATORY MEDICAL COURSE

This course is arranged to meet the needs of students preparing to become physicians. It also offers to those who are interested in the biological sciences a very desirable training for teaching or investigation.

The technical work of the course consists mainly of two lines of study, chemical and biological. In both of these lines the work is continued through the greater part of the course, and students receive sufficient training to make them familiar with methods and apparatus. Accurate observation and the careful consideration of the meaning of observed facts are the important features of this course.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science.

STUDIES OF THE PREPARATORY MEDICAL COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.		SPRING TERM—18 WEEKS.	
	Hours.		Hours.
Gm1, German, p. 57 or....	4.0	Gm2, German, p. 58 or	4.0
Gm2a, German, p. 58 (2.5)	2.5	Gm2b, German, p. 58 (2.5)	2.5
Eh3, Rhetoric, p. 59.....	2.0	Eh4, Rhetoric, p. 59.....	2.5
Ms2, Algebra, p. 63	3.0	Ms3, Algebra, p. 63	2.5
Ms4, Trigonometry, p. 64.....	2.5	Ms1, Solid Geometry, p. 63, or	2.5
Ch1, General Chemistry, p. 68 . . .	2.0	Ms19, Sph. Trigonometry, p. 65 }	2.5
Ch3, Laboratory Chemistry, p. 68, }	2.0	Ch2, General Chemistry, p. 68 . . .	2.5
Dr1, Drawing, p. 85,	3.0	Ch4, Laboratory Chemistry, p. 68 }	2.0
Dr2, Math. Drawing, p. 85, 8 w. . }	3.0	Ht1, General Botany, p. 76.	2.5
		Dr2, Math. Drawing, p. 85, 5 w. . . }	3.0

SOPHOMORE YEAR.

Gm3a, German, p. 58.....	2.5	Gm3b, German, p. 58.	2.5
Rm1, French p. 56 or	4.0	Rm2, French, p. 56 or	4.0
Rm2a, French, p. 56 (2.5)	2.5	Rm2b, French, p. 56 (2.5)	2.5
Ps2, General Physics, p. 67.	2.5	Ps5, Laboratory Physics, p. 66 . . }	2.5
Ch5, Inorganic Chemistry, p. 68. . .	2.5	Ps13, General Physics, p. 67.....	2.5
Ch14, Qualitative Analysis, p. 69. }	2.0	Ch6, Inorganic Chemistry, p. 69.. }	2.5
B11, General Biology, p. 71.....	2.5	Ch5, Qualitative Analysis, p. 70. }	2.0
B12, Laboratory Biology, p. 72.. }	2.0	Ag13, Bacteriology, p. 75, 9 w. }	2.5
		Ht8, Histology of Plants, p. 77, }	2.0
		9 w. }	2.5

JUNIOR YEAR.

Gm4a, German, p. 58 or {	2.5	P12, Logic, p. 61 or	2.5
Rm3a, French, p. 56 }	2.5	Ag11, Veterinary Science, p. 75 }	2.5
P11, Psychology, p. 60.....	2.5	Ch19, Volumetric Analysis, p. 70.. }	2.0
Ch7, Organic Chemistry, p. 69... }	2.5	Ch21, Toxicology and Urinalysis,	2.0
Ch16, Quantitative Analysis, p. 70 }	2.0	p. 70	2.0
B15, Zoology, p. 72.....	2.5	B17, Zoology, p. 72.....	2.5
B16, Laboratory Zoology, p. 72.. }	2.0	B18, Laboratory Zoology, p. 72.. }	2.0
Ag1, Biological Chemistry, p. 73. . . }	2.5	Ag2, Biological Chemistry, p. 73. . . }	2.0

SENIOR YEAR.

Cv1, General History, p. 62	2.5	Cv14, Political Economy, p. 63... }	2.5
Cv13, Political Economy, p. 63. . . . }	2.5	Cv16, Constitutional Law and	2.5
Cv15, Constitutional Law and	2.5	History, p. 63.....	2.5
History, p. 63.....	2.5	B19, Physiology, p. 72	2.5
B113, Geology, p. 73.....	2.5	B110, Laboratory Physiology, p. 73 }	2.0
Pm3, Laboratory Pharmacy, }	2.0	P12, Logic, p. 73 or	2.5
p. 86, 9 w	2.0	Ag1, Veterinary Science, p. 75 }	2.5
Ch27, Laboratory Physiologi- }	2.0	Ag14, Animal Histology, p. 76, }	2.0
cal Chemistry, p. 71, 9 w. }	2.0	9 w. }	2.0
Pm7, Materia Medica, p. 77.....	2.5	Ag15, Lab. Bacteriology, p. 76, 9 w. }	2.0

COLLEGE OF AGRICULTURE

The aim of the College of Agriculture is to prepare young men to become farmers, or teachers or investigators of agricultural subjects. The instruction is arranged, first, to secure for the student that intellectual development which is a condition fundamental to the highest success in any calling, and, second, to give the necessary technical knowledge. The college comprises:

- The Agricultural Course
- The Special Courses in General Agriculture
- The Special Course in Horticulture
- The Special Course in Dairying
- The Special Course in Poultry Management
- The Agricultural Experiment Station

THE AGRICULTURAL COURSE

This course is designed for those who wish to follow agriculture as a business, or purpose to become teachers or investigators in the sciences related to agriculture. It is broadly educational, particularly in the natural sciences and their relations to human needs and activities, and gives an admirable preliminary training for either business or professional life. The distinctive studies of this course are along technical lines, but the branches pertaining to general culture, to social and civil relations, occupy an important place.

The theoretical instruction, especially that of the last two years, is associated with practical work and observation, whenever it is necessary for the demonstration of a principle, or if skilled labor is involved; but the student's time is not consumed in merely manual operations.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science.

STUDIES OF THE AGRICULTURAL COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.		SPRING TERM—18 WEEKS.	
	Hours.		Hours.
Gm1, German, p. 57 or	{ ... 4.0	Gm2, German, p. 58 or	{ ... 4.0
Gm2a, German, p. 58 (2.5)		Gm2b, German, p. 58 (2.5)	
Eh3, Rhetoric, p. 59....	2.5	Eh4, Rhetoric, p. 59....	2.5
Ms2, Algebra, p. 63	2.0	Ms3, Algebra, p. 63.....	2.5
Ms4, Trigonometry, p. 64....	3.0	Ms1, Solid Geometry, p. 63 or	{ 2.5
Ch1, General Chemistry, p. 68....	2.5	Ms19, Sph. Trigonometry, p. 65	
Ch3, Laboratory Chemistry, p. 68	†2.0	Ch2, General Chemistry, p. 68....	2.5
Dr1, Drawing, p. 85.....	†5.0	Ch4, Laboratory Chemistry, p. 68	†2.0
Dr2, Math. Drawing, p. 85, 8 w....	†3.0	Ht1, General Botany, p. 76.....	†5.0
		Dr2, Math. Drawing, p. 85, 5 w....	†3.0

SOPHOMORE YEAR.

Gm3a, German, p. 58	2.5	Gm3b, German, p. 58.....	2.5
Rm1, French, p. 56 or	{ 4.0	Rm2, French, p. 56 or	{ 4.0
Rm2a, French, p. 56 (2.5)		Rm2b, French, p. 56 (2.5)	
Ps12, General Physics, p. 67.....	2.5	Ps5, Laboratory Physics, p. 66....	†5.0
Ch5, Inorganic Chemistry, p. 68....	2.5	Ps13, General Physics, p. 67.....	2.5
Ch14, Qualitative Analysis, p. 69	†6.0	Ch6, Inorganic Chemistry, p. 69.	2.5
Bl1, General Biology, p. 71.....	2.5	Ch16, Quan. Analysis, p. 70.....	†8.0
Bl2, Laboratory Biology, p. 72....	†5.0	Ag13, Bacteriology, p. 75, 9 w.	{ †5.0
		Ht8, Hist. of Plants, p. 77, 9 w.	

JUNIOR YEAR.

Gm4a, German, p. 58 or	{ ... 2.5	*Cv2, English History, p. 72.....	2.5
Rm3a, French, p. 56		Ag2, Biological Chemistry, p. 73,	5.0
Ch7, Organic Chemistry, p. 69....	2.5	*Ag5, Agricultural Engineer-	{ 2.5
Ch20, Agricul. Analysis, p. 70....	†6.0	ing, p. 74, 9 w.	
*Bl11, Entomology, p. 73	2.5	*Ag7, Dairying, p. 74, 9 w.	{ †7.0
*Bl12, Laboratory Entomology,	†2.0	*Ag10, Dairy Practice, p. 75, 12 w.	
p. 73.....		*Ag12, Dissecting, p. 75, 6 w.	
Ag1, Biological Chemistry, p. 73,	2.5	*Ht4, Plant Variation, p. 76, 9 w.	{ 2.5
*Ht2, Pomology, p. 76, 9 w.	{ 2.5	*Ht5, Landscape Gardening, p.	
*Ht3, Vegetable Gardening, p.		2.5	76, 9 w.
76, 9 w.....	†5.0	*Ht7, Laboratory Horticulture,	†4.0
*Ht6, Laboratory Horticulture,		p. 77.....	
d. 77.....			

SENIOR YEAR

Pl1, Psychology, p. 60.....	2.5	Pl2, Logic, p. 61.....	2.5
Cv13, Political Economy, p. 63 ..	2.5	Cv16, Constitutional Law and	2.5
Cv15, Constitutional Law and	2.5	History, p. 63.....	
History, p. 63.....		2.5	†Bl9, Physiology, p. 72 .....	2.5
†Bl3, Cryptogamic Botany, p. 72.	2.5	†Bl10, Laboratory Physiology,	†5.0
†Bl4, Laboratory Botany, p. 72 ..	†2.0	p. 73.....	
Bl13, Geology, p. 73	2.5	†Ag6, Stock Feeding, p. 74, 7 w.	5.0
†Ag3, Agricultural Chemistry,	2.5	†Ag8, Stock Breeding, p. 75, 7 w.	
p. 74, 9 w.		†2.5	†Ag9, Poultry Industry, p. 75, 4 w.
†Ag4, Agricultural Physics, p.	{ 2.5	†Ag11, Veterinary Science, p. 75.	2.5
74, 9 w.			
†Ht10, Forestry, p. 77.....	2.5		

* Given to juniors and seniors in fall term of even years and spring term of odd years.

† Given to juniors and seniors in fall term of odd years and spring term of even years.

THE SPECIAL COURSES IN AGRICULTURE

For those who can meet the expense, the investment of time and money necessary to complete the four years course, is most wise. To others the Special Courses in Agriculture are offered. Students are admitted to courses of such length as their time will allow, and of such breadth as their previous training will permit.

For admission to these courses, applicants should possess a good common school education. No formal entrance examination is required for admission to courses of one term or less, but the Professor of Agriculture will satisfy himself of the fitness of candidates to pursue the course with success. The requirements for admission to courses of one year or more are given on page 41.

These courses are intended to give the greatest amount of directly useful knowledge that can be acquired in the time allotted. The studies pursued must usually be selected from those announced in the catalogue, but they will be arranged, so far as practicable, to meet the needs of each student.

The annual expenses for courses of one year or more, are the same as those of students in the four years courses. No charge is made for rooms. Students in the special courses, who are in attendance for one term or less, are not charged tuition.

These courses, including the work in agriculture, horticulture, animal industry, and veterinary science, are in the general charge of the Professor of Agriculture, to whom inquiries should be addressed.

The outline of the subjects which may be profitably pursued, and which a student may expect to complete within the time allotted, is listed below:

SUBJECTS WHICH MAY BE TAKEN IN ONE TERM OR LESS

Plant and Animal Nutrition; Fertilizers and Manures; Breeds, Breeding and Feeding; Farm Machinery; Farm Drainage; Veterinary Science; Bacteriology; Crops and Crop Production; Farm Gardening; Carpentry; Blacksmithing; Farm Accounts; Business Law; Injurious Insects; Injurious Fungi; Bacteriology; Propagation of Plants; Vegetable Gardening; Spraying, and Spraying Machines; Fruit Culture; Economic Botany; Ornamental Gardening; Greenhouse Construction and Management.

SUBJECTS WHICH MAY BE TAKEN IN A ONE YEAR COURSE IN
AGRICULTURE

General Chemistry; Agricultural Chemistry; Cryptogamic Botany; Laboratory Botany; Plant Variation; Landscape Gardening; Laboratory Horticulture; Pomology; Vegetable Gardening; Invertebrate Zoology; Laboratory Zoology; Entomology; Stock Feeding; Poultry Industry; Dairy Practice; Veterinary Science; Agricultural Physics; Agricultural Engineering; Business Law; Carpentry; Forge Work.

SUBJECTS WHICH MAY BE TAKEN IN A TWO YEAR COURSE IN
AGRICULTURE

First Year. Rhetoric; Elementary Physics; General Chemistry; Agricultural Mechanics; Cryptogamic Botany; Laboratory Botany; Invertebrate Zoology; Laboratory Zoology; Drawing; Business Law; Entomology; Laboratory Horticulture; Pomology; Vegetable Gardening; General Botany; Carpentry; Forge Work.

Second Year. Laboratory Chemistry; Biological Chemistry; Agricultural Chemistry; Vertebrate Zoology; Physiology; Dissection; Veterinary Science; Stock Feeding; Plant Variation; Landscape Gardening; Laboratory Horticulture; Geology; Agricultural Physics; Agricultural Engineering; Dairying; Stock Feeding; Poultry Industry; Dairy Practice; Bacteriology.

SHORT WINTER COURSE IN GENERAL AGRICULTURE AND
DAIRYING

The Course in Dairying is intended to meet the needs of those who wish to fit themselves for managers of creameries and cheese factories. If the course is pursued during two terms, and two seasons' satisfactory work is performed in a butter or cheese factory, the student will be granted a certificate of proficiency.

This course begins on the Tuesday following the last Friday of January, and continues six weeks.

The subjects taken up are: Chemistry of Plants and Animal Nutrition; Dairying Feeds and Feeding; Breeds and Breeding; Crop Production; Bacteria of the Dairy; Diseases of Animals; Sheep Husbandry; Dairy Practice; Shop Work.

SHORT SPECIAL COURSE IN HORTICULTURE

On the Tuesday following the close of the Short Course in Dairying the special three weeks' course in Horticulture begins.

There is crowded into this short course all of the practical, helpful information possible. It is necessarily somewhat in the nature of an extended farmers' institute, and a special effort is made to outline future work for the students. The following subjects are taken up: Chemistry of Soils and Fertilizers; Chemistry of Plants. How Plants Feed; Plant Propagation; Orchard Culture; Small Fruit Culture; Vegetable Gardening; Insects and Fungi; Spraying of Plants.

SHORT SPECIAL COURSE IN POULTRY MANAGEMENT

On the Tuesday following the close of the Short Course in Horticulture the special three weeks' course in poultry management begins. The design is to make the course practical and valuable to persons who desire to engage in the pursuit of poultry growing and egg production. The subjects studied are embryology, buildings and appliances, incubation, egg production and breeds. The afternoons are devoted to work with incubators, brooders, and the treatment and handling of young chickens, growing stock, and mature fowl.

THE AGRICULTURAL EXPERIMENT STATION

The Maine Agricultural Experiment Station owes its existence to an act of Congress, approved March 2, 1887, popularly known as the Hatch Act. The act of the legislature accepting the congressional grant made the Station a department of the University of Maine.

The affairs of the Station are considered by an advisory council consisting of a committee of the trustees of the University, the president of the University, members of the Station staff, the Commissioner of Agriculture, and representatives from the State Pomological Society, and the State Grange. The recommendations of the council are referred to the trustees for ratification. The Station receives \$15,000 annually from the general government.

The inspection of fertilizers, the inspection of concentrated commercial feeding stuffs, and the testing of the graduated glass-ware used in creameries, are entrusted to the Station through its director, who is responsible for the execution of the public laws relating to these matters.

The Station publishes the account of its work in bulletin form. The bulletins for a year form a volume of about 200 pages and make up the annual report. Bulletins which contain matter of immediate value to practical agriculture are sent free of cost to the entire mailing list of the Station. On request, the name of any resident of Maine will be placed on the mailing list of the Station. Bulletins which contain the record of experiments involving the technical language of science, and containing detailed data are sent to Station workers and others interested in the science of agriculture, but are not sent to farmers unless they are specially asked for. The annual report of the Station is also bound with the Agriculture of Maine, copies of which can be had on application to the Commissioner of Agriculture, Augusta, Maine.

COLLEGE OF ENGINEERING

The College of Engineering provides instruction along the lines indicated by the divisions made below. Two years of general studies, including the natural sciences, mathematics, modern languages, philosophy and economics, are followed by two of technical training. Opportunity is offered for special work in addition to that of the required courses. The college comprises:

- The Civil Engineering Course
- The Mechanical Engineering Course
- The Electrical Engineering Course
- The Mining Engineering Course

THE CIVIL ENGINEERING COURSE

The object of this course is to give the student a knowledge of mathematics, mechanics, and drawing, experience in the care and use of engineering instruments, and a drill in the application of mathematical principles and rules, with a view to fitting him at graduation to apply himself at once to engineering work. The course is planned to furnish not only technical instruction, but also the basis of a liberal education.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice, and designing, including the making of original designs and the preparation of the necessary drawings. Effort is made to acquaint the student with the best engineering structures, and with standard engineering literature.

The engineering building contains recitation rooms, designing rooms, testing laboratories, drawing rooms, and instrument rooms, and is well equipped.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science. Three years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Civil Engineer.

STUDIES OF THE CIVIL ENGINEERING COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.

SPRING TERM—18 WEEKS.

Hours.		Hours.	
Gm1, German, p. 57 or	} 4.0	Gm2, German, p. 58 or	} 4.0
Rm1, French, p. 56		Rm2, French, p. 56	
El3, Rhetoric, p. 59	2.5	El4, Rhetoric, p. 59	2.5
Ms2, Algebra, p. 63	2.0	Ms3, Algebra, p. 63	2.5
Ms4, Trigonometry, p. 64	3.0	Ms1, Solid Geometry, p. 63 or	} 2.5
Ch1, General Chemistry, p. 68	2.5	Ms19, Sph. Trigonometry, p. 65	
Ch3, Laboratory Chemistry, p. 68	12.0	Ch2, General Chemistry, p. 68	2.5
Dr1, Drawing, p. 85	15.0	Ch4, Laboratory Chemistry, p. 68	12.0
Dr2, Math. Drawing, p. 85, 8 w.	13.0	Dr2, Math. Drawing, p. 85, 5 w.	13.0
		Dr3, Mechanical Drawing, p. 85.	15.0

SOPHOMORE YEAR.

Gm2a, German, p. 58 or	} 2.5	Gm2b, German, p. 58 or	} 2.5
Rm2a, French, p. 56		Rm2b, French, p. 56	
Ms6, Analytical Geometry, p. 64	5.0	Ms7, Calculus, p. 64	5.0
Ps1, General Physics, p. 66	5.0	Ps2, General Physics, p. 66	2.5
Ce18, Sanitary Science, p. 80	1.0	Ps5, Laboratory Physics, p. 66	15.0
Dr4, Mechanical Drawing, p. 85.	15.0	Ce1, Plane Surveying, p. 78	2.5
Dr6, Descriptive Geometry, p. 86	2.5	Ce2, Field Work in Surveying, p. 78	14.0
		Dr7, Descriptive Astronomy, p. 86	1.5

JUNIOR YEAR.

Pl1, Psychology, p. 60	2.5	Pl2, Logic, p. 61	2.5
Ms8, Calculus, p. 64	2.5	Cv2, English History, p. 62	2.5
Gm3a, German, p. 56 or	} 2.5	Gm3b, German, p. 56 or	} 2.5
Rm3a, French, p. 56 or		Rm3b, French, p. 56 or	
Ms12, Adv. Integ. Calculus, p. 65 or		Ms13, Adv. Int. Calculus, p. 65 or	
Ms20, Solid Analytical Geome- try, p. 65 or	} 2.5	Ms15, Differential Equations, p. 65 or	} 2.5
Ps8, Math. Physics, p. 67 or		Ps7, Advanced Optics, p. 66 or	
Ps9, Laboratory Physics, p. 67 (15) or	} 2.5	Ps10, Laboratory Physics, p. 67 (15.0) elective with 15 hrs. of Dr5, Dr8, and Ce9.	} 12.0
B113, Geology, p. 73		Dr5, General Drawing, p. 85, 5 w.	
Ce3, Railroad Engineering, p. 78	2.5	Dr8, Stereotomy, p. 86, 5 w.	12.0
Ce4, Railroad Work, p. 78	15.0	Ce9, Higher Surveying, p. 78, 8 w.	5.0
Ce5, Highway Engineering, p. 78	1.0	Ce7, Mechanics, p. 79	5.0
Ce6, Mechanics, p. 78	5.0	Ce10, Hydraulics, p. 79	2.5

SENIOR YEAR.

Cv13, Political Economy, p. 63	2.5	Cv14, Political Economy, p. 63	2.5
Cv15, Constitutional Law and History, p. 63	2.5	Cv16, Constitutional Law and History, p. 63	2.5
Gm4a, German, p. 58 or	} 2.5	Ms10, Practical Astronomy, p. 64	2.5
Rm4a, French, p. 56 or		Ms9, Desc. Astronomy, p. 64 or Math., or Physics as in Junior Year.	
Ce8, Sanitary Engineering, p. 79	2.5	Ce13, Structures, p. 79	5.0
Ce12, Structures, p. 79	5.0	Ce5, Designing and Thesis Work, p. 80 or Math. or Physics, as in Junior Year, or	} 12.0
Ce11, Hydraulic Field Work, p. 79, 6 w.	17.0	Gm4b, German, p. 58 or	
Ce14, Designing, p. 80, 12 w.		Rm4b, French, p. 57, elective with 15 hours of Ce15	

THE MECHANICAL ENGINEERING COURSE

This course is designed to give such a training in mathematics, mechanics, the principles of mechanism, in drawing, and manual arts, as shall make the student competent to deal successfully with the problems of mechanical engineering. The technical courses include the geometry of machinery; gearing, with problems and practice; the transmission of motion and power by belts, cams, couplings and links; the study and designing of the valve and link motions used in the steam engine; analytic mechanics; hydro-mechanics; the strength of materials; the expansion of steam; the construction of steam engines; and the designing of steam boilers.

The methods of instruction include lectures, recitations, practice in the various branches of shop-work, the solution of numerous problems, the testing of theoretical results by comparison with modern machinery, the inspection of important plants, and the use of journals and catalogues.

The recitation rooms and designing rooms are in Wingate Hall. The machine shop is equipped with iron working and wood working machinery of the most approved forms.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science. Three years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Mechanical Engineer.

STUDIES OF THE MECHANICAL ENGINEERING COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.

	Hours.
Gm1, German, p. 57 or {	4.0
Rm1, French, p. 56	
Eb3, Rhetoric, p. 59.....	2.5
Ms2, Algebra, p. 63.....	2.0
Ms4, Trigonometry, p. 64.....	3.0
Ch1, General Chemistry, p. 68...	2.5
Ch3, Laboratory Chemistry, p.68	12.0
Dr1, Drawing, p. 85.....	15.0
Dr2, Math. Drawing, p. 85, 8 w..	13.0

SPRING TERM—10 WEEKS.

	Hours.
Gm2, German, p. 58 or {	4.0
Rm2, French, p. 56	
Eb4, Rhetoric, p. 59.....	2.5
Ms3, Algebra, p. 63.....	2.5
Msl, Solid Geometry, p. 63 } or	2.5
Ms10, Sph. Trigonom., p. 65	
Ch2, General Chemistry, p. 68....	2.5
Ch4, Laboratory Chemistry, p.68	12.0
Dr2, Math. Drawing, p. 85, 5 w....	13.0
Dr3, Mechanical Drawing, p. 85.	15.0

SOPHOMORE YEAR.

Gm2a, German, p. 58 or	}	.....	2.5	Gm2b, German, p. 58 or	}	.....	2.5
Rm2a, French, p. 56				Rm2b, French, p. 56			
Ms6, Analytical Geometry, p. 64.		.....	5.0	Ms7, Calculus, p. 64.....		.....	5.0
Ps1, General Physics, p. 66.....		.....	5.0	Ps2, General Physics, p. 66.....		.....	2.5
Me2, Forge Work, p. 80, 12 w.	}	.....	†7.0	Ps5, Laboratory Physics, p. 76...		.....	†5.0
Me19, Machine Drawing, p. 82, 6 w.				Me1, Carpentry, p. 80. ....	.....	†5.0	
Dr6, Descriptive Geometry, p. 86		.....	2.5	Me3, Kinematics, p. 81.....		.....	†5.0
				Dr7, Descriptive Geometry, p. 86		.....	1.5

JUNIOR YEAR.

Pl1, Psychology, p. 60.....	2.5	Pl2, Logic, p. 61.	2.5
Ms8, Calculus, p. 64.....	2.5	Cv2, English History, p. 62.....	2.5
Gm3a, German, p. 58 or	}	Ce7, Mechanics, p. 79.....	5.0
Rm3a, French, p. 56 or		Me9, Machine Design, p. 81	3.5
Ms12, Advanced Integral Cal- culus, p. 65 or	}	Gm3b German, p. 58 (2.5) or	}
Ms20, Solid Analytical Geome- try, p. 65 or		Ms13, Advanced Integral Cal- culus, p. 65 (2.5) or		}†10.0
Ps8, Advanced Physics, p. 67 or	}	Ms15, Differential Equations, p. 65 (2.5) or	}
Ps9, Laboratory Physics, p. 67, (15) or		Ps7, Advanced Optics, p. 66 (2.5) or	
Bl13, Geology, p. 73	}	Ps10, Laboratory Physics, p. 67 (15) elective with †5 hrs. of Me4,	}
Ce6, Mechanics, p. 78.....		5.0	
Me4, Machine Work, p. or 81	}		
Ps11, Electrical Measurement and Testing, p. 67, elec- tive with †4 hrs. of Me4		†8.0	
Ee9, Dynamics, p. 84.....	2.0		

SENIOR YEAR.

Cv13, Political Economy, p. 63...	2.5	Cv14, Political Economy, p. 63...	2.5
Cv15, Constitutional Law and History, p. 63.....	2.5	Cv16, Constitutional Law and History, p. 63.....	2.5
Me8, Structures, p. 81.....	2.5	Me13, Testing, p. 82, 2d 9 w.....	2.5
Me10, Hydro-Mechanics, p. 81...	2.5	Me14, Steam Engine, p. 82.....	3.5
Me11, Heat and Steam, p. 81.....	2.5	Me15, Steam Engine Design, p. 82, 9 w., and	}
Me12, Steam Boiler Design, p. 82 or	}	Me16, Thesis Work, p. 82, 9 w. or Mathematics or Physics as in Junior year or		}†15.0
Mathematics or Physics as in Junior year or		†12.0	Gm4b, German, p. 58 or
Gm4a, German, p. 58 or	}	Rm4b, French, p. 57, elective with †5 hrs. of Me15 and Me16,	}
Rm4a, French, p. 56, elective with †5 hrs. of Me12,				Ee10, Dynamo Laboratory Work, p. 84, 1st 9 w.....	†5.0

THE ELECTRICAL ENGINEERING COURSE

This course is intended to provide a thorough preparation in the scientific principles involved in the practice of electrical engineering; to explain and illustrate the application of these principles to the design, construction, installation and running of apparatus with which the electrical engineer has to deal; and to give practice and experience in the care and management of the same.

For the first two years the Electrical and Mechanical Engineering courses are identical. During the junior year students in electrical engineering take up electricity and magnetism, and dynamo designs. This work is followed in the senior year by recitations, lectures, drawing room and laboratory work in direct and alternating currents.

During this time the student also acquires a knowledge of shop work, machanical drawing, mathematics, physics, mechanics, steam engineering and kindred subjects. Beside the technical work he receives training in English, French and German, logic, history, political economy and constitutional law.

The equipment for laboratory work is ample. The apparatus includes most of the standard forms of direct and alternating current machines and instruments.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed graduate work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science. Three years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Electrical Engineer.

STUDIES IN THE ELECTRICAL ENGINEERING COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.		SPRING TERM—18 WEEKS.	
	Hours.		Hours.
Gm1, German, p. 57 or {	4.0	Gm2, German, p. 58 or {	4.0
Rm1, French, p. 56		Rm2, French, p. 56	
Eh3, Rhetoric, p. 59.....	2.5	Eh4, Rhetoric, p. 59.....	2.5
Ms2, Algebra, p. 63.....	2.0	Ms3, Algebra, p. 63.....	2.5
Ms4, Trigonometry, p. 64.....	3.0	Ms1, Solid Geometry, p. 63 or {	2.5
Ch1, General Chemistry, p. 68 ...	2.5	Ms19, Sph. Trigonometry, p. 65 }	2.5
Ch3, Lab. Chemistry, p. 68.....	12.0	Ch2, General Chemistry, p. 68 ...	2.5
Dr1, Drawing, p. 85.	15.0	Ch4, Lab. Chemistry, p. 68.....	12.0
Dr2, Math. Drawing, p. 85, 8 w...	13.0	Dr2, Math. Drawing, p. 85, 5 w...	13.0
		Dr3, Mechanical Drawing, p. 85.	15.0

SOPHOMORE YEAR.

Gm2a, German, p. 58 or {	2.5	Gm2b, German, p. 58, or {	2.5
Rm2a, French, p. 56		Rm2b, French, p. 56	
Ms6, Analytical Geometry, p. 64	5.0	Ms7, Calculus, p. 64.. ...	5.0
Ps1, General Physics, p. 66.....	5.0	Ps2, General Physics, p. 66.	2.5
Me2, Forge Work, p. 80, 12 w. }	17.0	Ps5, Laboratory Physics, p. 66..	15.0
Me19, Machine Draw., p. 82, 6 w. }	17.0	Me1, Carpentry, p. 80.	15.0
Dr6, Descriptive Geometry, p. 86	2.5	Me3, Kinematics, p. 81.....	15.0
		Dr7, Descriptive Geometry, p. 86	1.5

JUNIOR YEAR.

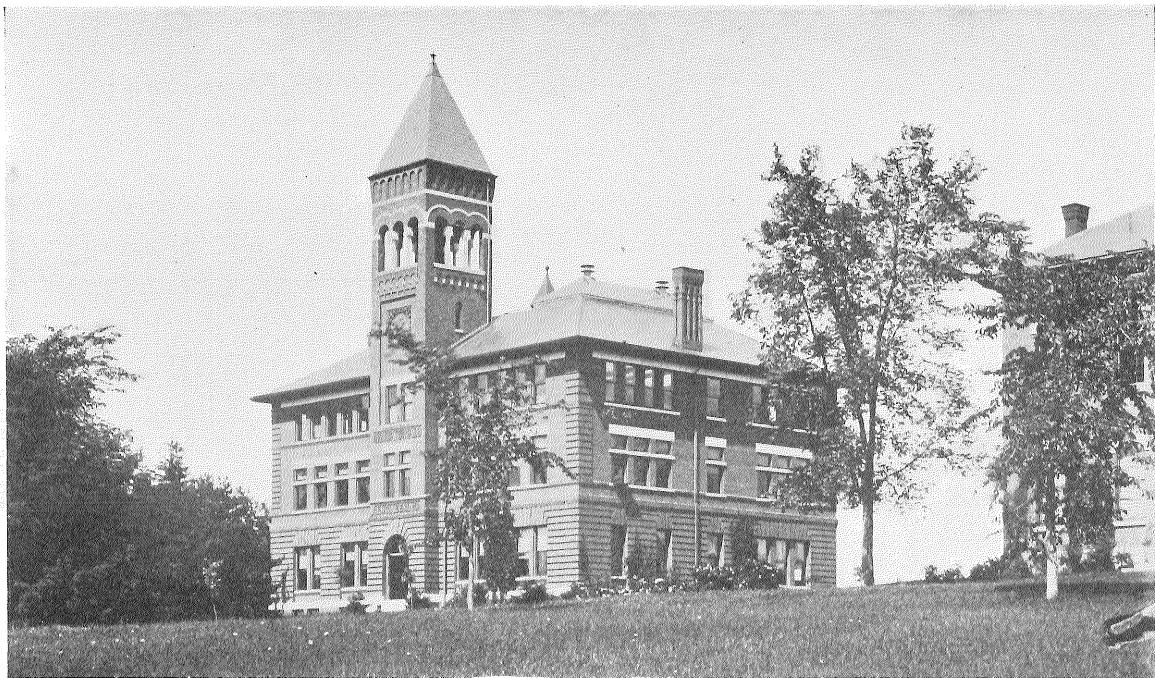
P11, Psychology, p. 60.....	2.5	P12, Logic, p. 61.....	2.5
Ms8, Calculus, p. 64.....	2.5	Cv2, English History, p. 62 ...	2.5
Gm3a, German, p. 58 or	}	Gm3b, German, p. 58 (2.5) or	}
Rm3a, French, p. 56 or		Rm3b, French, p. 56 (2.5) or	
Ms12, Adv. Integral Calculus,		Me9, Machine Design, p. 81 or	
p. 65 or		Ms13, Adv. Integ. Calculus, p. 65	
Ms20, Solid Analytical Geom-	(2.5) or	Ms15, Differential Equations,	}
etry, p. 65 or	p. 65 (2.5) or	Ps7, Advanced Optics, p.66,(2.5)	
Ps8, Advanced Physics, p. 67 or	or	Ps10, Lab. Physics, p. 67 (f5.0)	
Ps9, Lab. Physics, p. 67 (f5.0) or	Ps14, Electrical Measurement	Ps17, Electrochemistry, p. 68,	
Ps14, Electrical Measurement	and Testing, p.67 (f5.0) or	(2.5) or	}
Ch14, Qualitative Analysis, p.	69 (f5) or	Ch16, Quantitative Analysis, p.	
B113, Geology, p. 73	}	70, (f5.0)	}
Ps11, Electrical Measurement		Ce7, Mechanics, p. 79.....		5.0
and Testing, p. 67	4.0	Me4, Machine Work, p. 81.....	15.0
Ce6, Mechanics, p. 78.....	5.0	Ee2, Electricity and Magnetism,	}
Me4, Machine Work, p. 81.....	14.0	and Dynamo Design, p. 83	
Ee1, Electricity, and Magnetism,	}	p. 83	2.5
p. 83		2.5	

SENIOR YEAR.

Cv13, Political Economy, p. 63...	2.5	Cv14, Political Economy, p. 63 ..	2.5
Cv15, Constitutional Law and	}	Cv16, Constitutional Law and	}
History, p. 63		2.5		History, p. 63
Mel1, Heat and Steam, p. 81 or	}	Mel4, Steam Engine, p. 82 or	}
Mathematics or Physics as in		2.5		Mathematics, or Physics, as in
junior year or	}	junior year (2.5) or	}
Gm4a, German, p. 58 or		2.5		Gm4b, German, p. 58 (2.5) or
Rm4a, French, p. 56	}	Rm4b, French, p. 57 (2.5)	}
Ee3, Electrical Machinery, p. 83,		2.5		Ee4, Alternating Current Ma-
Ee5, Design of Direct Current	15.0	chinery, p. 83, 1st 9 w.	5.0
Machines, p. 83	}	Ee6, Design of Alternating	}
Ee7, Lab. Work, Direct Cur-		17.0		Current Machines, p.
rents, p. 84	}	84, 1st 9 w.	}
Ee13, Alternating Currents, p. 84		2.5		Ee8, Laboratory Work, p. 84,
		1st 9 w.	15.0
		Ee14, Electrical Engineering,	}
		p. 85, 2nd 9 w.	
		Ee16, Thesis Work, p. 85, 2nd 9 w.	15.0

THE MINING ENGINEERING COURSE

At a recent meeting of the board of trustees it was voted to establish a department of mining engineering. The course of study for the first two years will be identical with that in civil engineering, except that during the second year class and laboratory work in chemistry will take the place of the courses in mechanical drawing, descriptive geometry, and surveying. It is expected that more specific and advanced instruction in this new department will be provided for at an early date.



WINGATE HALL

COLLEGE OF PHARMACY

The College of Pharmacy comprises:

The Pharmacy Course

The Short Course in Pharmacy

THE PHARMACY COURSE

This course is offered in response to a demand for a thorough training, both general and technical, for those who are to become pharmacists. It aims to combine a broad general culture and a thorough preparation along its special lines, with the design of affording both the intellectual development necessary for the well rounded professional or business man, and the necessary technical training. To this end, it includes the same instruction in modern languages, civics, and the sciences, as is offered in other college courses.

Those who intend to fit themselves for pharmaceutical work are urged to consider carefully the superior advantages of this course. The growing importance of the biological, sanitary, and medical sciences, and the pharmacist's relation to them, makes it increasingly necessary to his success that he be not only a well trained man in the technical branches, but an educated man in the broadest sense.

Instruction in pharmaceutical studies is given by means of lectures, recitations, and tests, supplemented by work in the laboratories of chemistry and pharmacy. It embraces qualitative, quantitative, and volumetric analysis, toxicology, bacteriology, prescriptions, the preparation of pharmaceutical compounds, and original investigations.

The library contains valuable reference literature in chemistry and pharmacy, and the best chemical and pharmaceutical journals.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science.

STUDIES OF THE PHARMACY COURSE

For Declamations and Themes see page 59; for Military Science see page 88.

FRESHMAN YEAR.

FALL TERM—18 WEEKS.		SPRING TERM—18 WEEKS.	
	Hours.		Hours.
Gm1, German, p. 57 or	} 4.0	Gm2, German, p. 58 or	} 4.0
Gm2a, German, p. 58 (2.5)		Gm2b, German, p. 58 (2.5)	
Eh3, Rhetoric, p. 59	..... 2.5	Eh4, Rhetoric, p. 59	..... 2.5
Ms2, Algebra, p. 63	..... 2.0	Ms3, Algebra, p. 63	..... 2.5
Ms4, Trigonometry, p. 64	..... 3.0	Ms1, Solid Geometry, p. 63 or	} 2.5
Ch1, General Chemistry, p. 68	..... 2.5	Ms19, Sph. Trigonometry, p. 65	
Ch3, Laboratory Chemistry, p. 68	..... †2.0	Ch2, General Chemistry, p. 68	..... 2.5
Dr1, Drawing, p. 85	..... †5.0	Ch4, Laboratory Chemistry, p. 68	..... †2.0
Dr2, Math. Drawing, p. 85, 8 w	..... †3.0	H1, General Botany, p. 76	..... †5.0
		Dr2, Math. Drawing, p. 85, 5 w	..... †3.0

SOPHOMORE YEAR.

Gm3a, German, p. 58	..... 2.5	Gm3b, German, p. 58	..... 2.5
Rm1, French, p. 56 or	} 4.0	Rn2, French, p. 56 or	} 4.0
Rm2a, French, p. 56 (2.5)		Rn2b, French, p. 56 (2.5)	
Ps12, General Physics, p. 67	..... 2.5	Ps13, General Physics, p. 67	..... 2.5
Ch5, Inorganic Chemistry, p. 68	..... 2.5	Ps5, Laboratory Physics, p. 66	..... †5.0
Ch14, Qualitative Analysis, p. 69	..... †10.0	Ch6, Inorganic Chemistry, p. 69	..... 2.5
Bl1, General Biology, p. 71	..... 2.5	Ch15, Qualitative Analysis, p. 70	..... †7.0
Bl2, Laboratory Biology, p. 72	..... †5.0	Ag13, Bacteriology, p. 75, 9 w	} †5.0
		Hts, Histology of Plants, p. 77	
		9 w.	

JUNIOR YEAR.

Gm4a, German, p. 58 or	} 2.5	Ch8, Organic Chemistry, p. 69	..... 2.5
Rm3a, French, p. 56		Ch21, Toxicology and Urinalysis,	} †2.0
Pl1, Psychology, p. 60	..... 2.5	p. 70	
Ch7, Organic Chemistry, p. 69	..... 2.5	Ag2, Biological Chemistry, p. 73	..... 5.0
Ch10, Analytical Methods, p. 69	..... 1.0	Bl9, Physiology, p. 72	..... 2.5
Ch16, Quantitative Analysis, p. 70	..... †10.0	Bl10, Laboratory Physiology, p. 73	..... †5.0
Ag1, Biological Chemistry, p. 73	..... 2.5	Pm6, Organic Pharmacognosy,	} 4.0
Pm5, Inorganic Pharmacognosy,	} 2.5	p. 97	
p. 87			

SENIOR YEAR.

Cv13, Political Economy, p. 63	..... 2.5	Pl2, Logic, p. 61, or	} 2.5
Cv15, Constitutional Law and	} 2.5	Cv14, Political Economy, p. 63	
History, p. 63		Cv16, Constitutional Law and	} 2.5
Pm2, Pharmacy, p. 86	..... 5.0	History, p. 63	
Pm3, Laboratory Pharmacy, p. 86	..... †12.0	Ag15, Laboratory Bacteriology,	} †10.0
Pm7, Materia Medica, p. 87	..... 2.5	p. 76, 9 w	
		Pm4, Pharmacopœia, p. 87	..... 5.0
		Pm8, Thesis Work, p. 87, 9 w	..... †12.0
		Pm11, Prescriptions, p. 88	..... 2.5

THE SHORT COURSE IN PHARMACY

This course, of two years, is designed for those who, for lack of time or for other reasons, are unable to take the course of four years. The more general educational studies of the full course are omitted, but as broad a range of subjects is offered as can be undertaken without sacrifice of thoroughness in the technical work. The course corresponds, in general, to the usual full course of the pharmacy college. The work required of the student will occupy his whole time during the college year of nine months, and will usually exclude work in drug stores during term time.

Students who complete this course in a satisfactory manner receive the degree of Pharmaceutical Chemist.

STUDIES OF THE SHORT COURSE IN PHARMACY

For Military Science see page 88.

FIRST YEAR.

FALL TERM—18 WEEKS.		SPRING TERM—18 WEEKS.	
	Hours.		Hours.
Ps3, Elementary Physics, p. 66....	2.5	Ps4, Elementary Physics, p. 66..	2.0
Ch1, General Chemistry, p. 68 ...	2.5	Ps6, Laboratory Physics, p. 66....	†1.0
Ch14, Qualitative Analysis, p., 69†	12.0	Ch2, General Chemistry, p. 68 ...	2.5
Pm1, Pharmacy, p. 86.....	5.0	Ch15, Qualitative Analysis, p. } 70, 9 w.	†14.0
Pm5, Inorganic Pharmacognosy, p. 87.....	2.5	Ch19, Volumetric Analysis, p. } 70, 9 w.	
		Ht1, General Botany, p. 76.....	†5.0
		Pm6, Organic Pharmacog., p. 87,	4.0

SECOND YEAR.

Ch7, Organic Chemistry, p. 69 ...	2.5	Ch8, Organic Chemistry, p. 69 ...	2.5
Ag1, Biological Chemistry, p. 73,	2.5	Ch21, Toxicology and Urinalysis, p. 70.....	†2.0
Pm2, Pharmacy, p. 86.....	5.0	Ag13, Bacteriology, p. 75, 9 w. }	†5.0
Pm3, Laboratory Pharmacy, p. 68, †	12.0	Ht8, Hist. of Plants, p. 77, 9 w. }	
Pm7, Materia Medica, p. 87.....	2.5	Pm4, Pharmacopœia and Pre- scriptions, p. 87.....	5.0
		Pm9, Pharmacy Readings, p. 87.	†5.0
		Pm10, Laboratory Pharmacy, p. 87	†5.0
		Pm11, Prescriptions, p. 88.....	2.5

SCHOOL OF LAW

FACULTY

GEORGE EMORY FELLOWS, PH. D.,
President of the University.

GEORGE ENOS GARDNER, M. A.,
Dean and Professor of Law.

ALLEN ELLINGTON ROGERS, M. A.,
Professor of Constitutional Law.

WILLIAM EMANUEL WALZ, M. A., LL. B.,
Professor of Law.

FOREST JOHN MARTIN, LL. B.,
Instructor in Law.

HUGO CLARK, C. E.,
Instructor in Law.

WILLIAM ROBINSON PATTANGALL, M. S.,
Instructor in Law.

EDGAR MYRICK SIMPSON, B. A.,
Instructor in Law.

CHARLES HAMLIN, M. A.,
Lecturer on Bankruptcy.

LUCILIUS ALONZO EMERY, LL. D.,
Lecturer on Roman Law.

ANDREW PETERS WISWELL, B. A.,
Lecturer on Evidence.

LOUIS CARVER SOUTHARD, M. S.,
Lecturer on Medical Jurisprudence.

RALPH KNEELAND JONES, B. S.,
Librarian.

The School of Law was opened to students in 1898. It occupies rooms in the Exchange Building, at the corner of State and Exchange streets, Bangor. In this city are held annually one term of the U. S. District Court, five terms of the Maine Supreme Judicial Court, one term of the Law Court, and daily sessions of the Municipal Court. The law library contains about 3,000 volumes, including the report of the Supreme Court of the United States, Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Ohio, and the Court of Appeals of New York, the New York Common Law and Chancery Reports, the American Decisions, American Reports, American State Reports, the Complete Reporter System, the Lawyers' Reports Annotated, all the Law Encyclopaedias, and a considerable number of text-books.

ADMISSION

Graduates of any college or satisfactory preparatory school are admitted to the school as candidates for the degree of Bachelor of Laws, without examination. Other applicants must give satisfactory evidence of the necessary educational qualifications for the pursuit of the required course of study. These will be fixed in each case, on consideration of its merits.

Special students, not candidates for a degree, will be admitted without examination, and may pursue any studies for which they are prepared.

Students from other law schools of good standing are admitted to classes in this school corresponding to classes in the schools from which they come, upon the production of a certificate showing the satisfactory completion of the prior work in such schools.

Students from law offices are admitted to advanced standing upon passing a satisfactory examination upon the earlier subjects of the course.

Members of the bar of any state are admitted to the senior class, without examination, as candidates for the degree of Bachelor of Laws.

METHODS OF INSTRUCTION

The school is not committed exclusively to any one method of instruction, and recognizes the great value of lectures by able men, and the profit to be found in the use of standard text-books, but the greatest stress is placed upon the study of selected cases, and most of the work is carried on in this way. It is

believed that through the case the student can best come at the controlling principles of the law, and that in no other way can he get so vital a comprehension of them. "Through the case to the principle," may perhaps adequately indicate the standpoint of the school in the matter of method.

Particular stress is placed upon the Practice Court, which is held once a week as a part of the work of the school, and in which every student is required to appear regularly. The questions of law are in all instances made to arise from the pleadings prepared by the students, and briefs, summarizing the points involved and the authorities cited, are submitted to the presiding judge. During the present year members of the Penobscot Bar have served in the capacity of judge, and it is expected that their services may be secured hereafter. Jury trials are frequently held, the records of recent cases actually tried before the Supreme Court sitting at *nisi prius* being used for that purpose.

The aim and spirit of the school are eminently practical, the purpose being to equip men for the every day duties of the practicing attorney.

COURSE OF STUDY

The course of study covers three years, in accordance with the requirements for admission to the bar in the State of Maine. The school year consists of thirty-two weeks, and is divided into the fall, winter, and spring terms, of eleven, ten, and eleven weeks respectively.

EXPENSES

The annual tuition fee is \$60. The graduation fee is \$10. There are no other charges.

Board and furnished rooms, with light and heat, may be obtained in the most convenient locations, at a price ranging from \$3 to \$7 a week. In other parts of the city lower rates may be obtained. It is believed that expenses in this department, as well as in other departments of the University, are lower than in any other New England college.

DEGREES

At the completion of the three years course, the degree of Bachelor of Laws is conferred. Upon the completion of one year's prescribed work in residence, or two years' in absence, including the presentation of a satisfactory thesis, the degree of Master of Laws is granted.

COURSES OF INSTRUCTION

Lw 1. CONTRACTS.—The text-book is Keener's Cases on Contract. *Four hours a week.* Fall term. MR. PATTANGALL.

Lw 2. CONTRACTS.—A continuation of course 1. *Three hours a week.* Winter Term. MR. PATTANGALL.

Lw 3. CONTRACTS.—A continuation of course 2. *Two hours a week.* Spring term. MR. PATTANGALL.

Lw 4. TORTS.—The text-book is Ames and Smith's Cases on Torts.

Four hours a week. Fall term. PROFESSOR WALZ.

Lw 5. TORTS.—A continuation of course 4.

Three hours a week. Winter term. PROFESSOR WALZ.

Lw 6. TORTS.—A continuation of course 5.

Two hours a week. Spring term. PROFESSOR WALZ.

Lw 7. HISTORY AND ELEMENTS OF LAW.—Lectures.

One hour a week. Fall term. PROFESSOR ROGERS.

Lw 8. REAL PROPERTY.—The text-book is Tiedeman on Real Property.

Four hours a week. Fall term. PROFESSOR GARDNER.

Lw 9. REAL PROPERTY.—A continuation of course 8.

Three hours a week. Winter term. PROFESSOR GARDNER.

Lw 10. AGENCY.—The text-book is Huffcut's Cases on Agency.

Three hours a week. Spring term. PROFESSOR WALZ.

- LW 11. BANKRUPTCY.—Lectures.
Two hours a week. Winter term. MR. HAMLIN.
- LW 12. CRIMINAL LAW.—The text-book is Beale's Cases on
Four hours a week. Spring term. MR. SIMPSON.
- LW 13. COMMON LAW PLEADING.—Lectures.
Two hours a week. Winter term. MR. MARTIN.
- LW 14. COMMON LAW PLEADING.—A continuation of course 13.
One hour a week. Spring term. MR. MARTIN.
- LW 15. EQUITY.—The text-books are Bispham on Equity
Jurisprudence, and Shepard's Illustrative Cases in Equity. *Four
hours a week.* Fall term. PROFESSOR WALZ.
- LW 16. EQUITY JURISPRUDENCE.—A continuation of course 15.
Four hours a week. Winter term. PROFESSOR WALZ.
- LW 17. EVIDENCE.—The text-book is Thayer's Cases on Evi-
dence.
Four hours a week. Fall term. PROFESSOR GARDNER.
- LW 18. EVIDENCE.—A continuation of course 17.
Four hours a week. Winter term. PROFESSOR GARDNER.
- LW 19. PRIVATE CORPORATIONS.—The text-book is Keener's
Cases on Private Corporations.
Four hours a week. Fall term. PROFESSOR GARDNER.
- LW 20. PRIVATE CORPORATIONS.—A continuation of course 19.
Three hours a week. Winter term. PROFESSOR GARDNER.
- LW 21. MUNICIPAL CORPORATIONS.—The text-book is Smith's
Cases on Municipal Corporations.
Three hours a week. Winter term. PROFESSOR WALZ.
- LW 22. REAL PROPERTY.—The text-book is Finch's Cases on
the Law of Property in Law.
Four hours a week. Spring term. PROFESSOR GARDNER.
- LW 23. CONSTITUTIONAL LAW.—The text-book is Smith's
Cases.
Three hours a week. Winter term. PROFESSOR ROGERS.

Lw 24. DOMESTIC RELATIONS.—The text-book is Elwell's Leading Cases.

Three hours a week. Fall term. MR. SIMPSON.

Lw 25. WILLS AND ADMINISTRATION.—The text-book is Chaplin's Cases on Wills.

Four hours a week. Spring term. PROFESSOR GARDNER.

Lw 26. PARTNERSHIP.—The text-book is Ames's Cases on Partnership.

Four hours a week. Spring term. PROFESSOR WALZ.

Lw 27. CONFLICT OF LAWS.—Text-book, Dwyer's Cases on Conflict of Laws.

Three hours a week. Fall term. PROFESSOR WALZ.

Lw 28. EQUITY PLEADING.—*Lectures.*

Two hours a week. Spring term. MR. CLARK.

Lw 29. JURISDICTION OF FEDERAL COURTS.—*Lectures.*

One hour a week. Spring term. PROFESSOR GARDNER.

Lw 30. ROMAN LAW.—*Lectures.*

One hour a week. Spring term. JUDGE EMERY.

Lw 31. EVIDENCE.—*Lectures.*

Time not fixed. JUDGE WISWELL.

Lw 32. MEDICAL JURISPRUDENCE.—*Lectures.*

Two hours a fortnight. Winter term. MR. SOUTHARD.

Lw 33. MEDICAL JURISPRUDENCE.—A continuation of course 32.

Two hours a fortnight. Spring term. MR. SOUTHARD.

COMMENCEMENT

The Commencement exercises of 1901 were as follows:—

Saturday, June 8: Junior Exhibition.

Sunday, June 9: Baccalaureate Address, by Dr. W. H. Jordan, Geneva, N. Y.

Monday, June 10: College Convocation, including reports of departments and student enterprises, and the awarding of prizes; Class Day Exercises; Reception by the University Guild.

Tuesday, June 11: Inspection of Alumni Hall; Receptions by the Fraternities; President's Reception.

Wednesday, June 12: Commencement Exercises and Presentation of Alumni Hall; Commencement Dinner; Meeting of the Alumni Association; Commencement Concert.

CERTIFICATES AND DEGREES

The Degree of Pharmaceutical Chemist was conferred upon:

Richard Henry Berry, Montville.

George Pearson Larrabee (class of 1900), Presque Isle.

John Foy Sanford, Lewiston.

The Bachelor's degree was conferred upon:

Charles William Bartlett, B. S. in Electrical Engineering,
North New Portland.

Mark Jonathan Bartlett, B. Ph., Montville.

Wales Rogers Bartlett, B. A., Center Montville.

John Harold Bixby, B. S. in Civil Engineering, Anson.

Oscar Merrill Bixby, B. S. in Mechanical Engineering,
Anson.

William Harris Boardman, B. S. in Civil Engineering, Calais.

Fred Hammond Hanson Bogart, B. S. in Mechanical Engineering, and B. S. in Electrical Engineering, Chester, Conn.

Thomas Buck, B. S. in Science, Orland.

- Lewis Robinson Cary, B. S. in Agriculture, Bowdoinham.
Arthur Leroy Cobb, B. S. in Electrical Engineering, South
Vassalboro.
Charles Elmer Crosby, B. S. in Agriculture, Albion.
Fred Merrill Davis, B. S. in Electrical Engineering, Lewiston.
George Harold Davis, B. S. in Electrical Engineering,
Auburn.
Benjamin Franklin Faunce, B. S. in Mechanical Engineering,
Norway.
Elsie Eunice Fitzgerald, B. Ph., Old Town.
Harold Morrill Folsom, B. A., Old Town.
Gertrude Lee Fraser, B. Ph., Old Town.
Joseph Edward French, B. S. in Electrical Engineering, So.
Chesterville.
George Estyn Goodwin, B. S. in Civil Engineering, Gorham,
N. H.
Emily Hamlin, B. S., Orono.
Clifford Dawes Harvey, B. S. in Chemistry, Lewiston.
LeRoy Harris Harvey, B. S., Orono.
Ernest Judson Howe, B. S. in Civil Engineering, South
Lancaster, Mass.
Henry Perez Hoyt, B. S. in Civil Engineering, Fort Fairfield.
Percy Raymond Keller, B. S. in Mechanical Engineering,
West Rockport.
Herbert Henry Leonard, B. S. in Mechanical Engineering,
Orono.
Frank Holt Lowell, B. S. in Mechanical Engineering, No.
Penobscot.
Bertrand Clifford Martin, B. S. in Civil Engineering, Ft.
Fairfield.
Fred Lewis Martin, B. S. in Electrical Engineering, Franklin.
Maurice Barnaby Merrill, B. A., Stillwater.
Charles Augustus Mitchell, B. S. in Mechanical Engineering,
West Newfield.
Harry Charles Pritham, B. S. in Chemistry, Freeport.
Alson Haven Robinson, B. S., Orono.
Mowry Ross, B. S. in Electrical Engineering, West Wood-
stock, Conn.
Samuel Day Thompson, B. A., Bangor.
Lewis Goodrich Varney, B. S. in Civil Engineering, Wind-
ham Center.

Thomas Hale Ward, B. S. in Electrical Engineering, Fryeburg.

Ernest Lauren Watson, B. S. in Mechanical Engineering, Brunswick.

Frank Erwin Watts, B. S. in Electrical Engineering, West Falmouth.

Stephen Edward Woodbury, B. S. in Mechanical Engineering, and B. S. in Electrical Engineering, Beverly, Mass.

Ralph Geddes Wormell, B. S. in Mechanical Engineering, Waterville.

The degree of Bachelor of Laws was conferred upon:

Ernest Clifford Butler, Skowhegan.

Benjamin Franklin Butterfield, Danforth.

Nathan Grant Foster, Weld.

Frank Plumstead, Wiscasset.

The degree of Master of Science, upon the presentation of satisfactory theses, and examination on prescribed courses of advanced study, was conferred upon:

Oliver Otis Stover, B. S. (1899).

James Arthur Hayes, B. S. (1900).

Frank Henry Mitchell, B. S. (1900).

Percy Leroy Ricker, B. S. (1900).

The degree of Civil Engineer, upon presentation of satisfactory theses, and proof of professional work extending over a period of not less than three years, was conferred upon:

Wendell Wyse Chase, B. C. E. (1895).

James William Martin, B. C. E. (1895).

William Thomas Brastow, B. C. E. (1897).

Llewellyn Nathaniel Edwards, B. C. E. (1898).

Fred William Sawtelle, B. C. E. (1898).

The degree of Electrical Engineer, upon presentation of satisfactory theses and proof of professional work extending over a period of not less than three years, was conferred upon:

Albion Dana Topliff Libby, B. M. E. (1898).

Ray Herbert Manson, B. M. E. (1898).

The degree of Graduate in Pharmacy, upon satisfactory proof of professional work was conferred upon:

William Bryant Webster, (1899).

The various prizes were awarded last year as follows :

The Kidder Scholarship, to Amy Ines Maxfield, Sandy Point.

The Junior Exhibition Prize, to Henry Ernest Cole, South Portland.

The Sophomore Exhibition Prize, to Thomas Edward Leary, East Hampden.

The Libby Prize, to Leroy Harris Harvey, Orono.

The Walter Balentine Prize, to Arthur Brookhouse Foster, Beverly, Mass.

The Franklin Danforth Prize, to Lewis Robinson Cary, Bowdoinham.

APPOINTMENTS

SPEAKERS AT COMMENCEMENT, JUNE, 1901

Ernest Clifford Butler, Skowhegan; George Harold Davis, Auburn; Harold Morrill Folsom, Oldtown; Nathan Grant Foster, Weld; Harold Morrill Folsom, Oldtown; Leroy Harris Harvey, Orono; Maurice Barnaby Merrill, Stillwater.

SPEAKERS AT THE JUNIOR EXHIBITION, JUNE, 1901

Edith Mae Bussell, Oldtown; Henry Ernest Cole, South Portland; Wesley Clarendon Elliott, Patten; Henry Carter French, Rumford Center; Patrick Edward McCarthy, Lewiston; Herbert Willis Sewell, Wilton.

SPEAKERS AT THE SOPHOMORE PRIZE DECLAMATION CONTEST,
DECEMBER, 1900.

Archie Ray Benner, Waldoboro; Geneva Blaisdell, Fort Fairfield; Fred Collins, Bar Harbor; Samuel Joshua Foster, Bingham; John Heddle Hilliard, Oldtown; Thomas Edward Leary, East Hampden; Amy Ines Maxfield, Sandy Point; Guy Osman Small, Kingfield (excused).

MEMBERS OF THE PHI KAPPA PHI

Wales Rogers Bartlett, Center Montville; Oscar Merrill Bixby, Anson; Fred Hammond Hanson Bogart, Chester, Conn.; Thomas Buck, Orland; Ernest Clifford Butler, Skowhegan; George Harold Davis, Auburn; Nathan Grant Foster, Weld; Gertrude Lee Fraser, Oldtown; George Estyn Goodwin, Gorham, N. H.; Clifford Dawes Harvey, Lewiston; Leroy Harris Harvey, Orono; Herbert Henry Leonard, Orono.

STUDENTS RECEIVING GENERAL HONORS

Mark Jonathan Bartlett, Montville; Wales Rogers Bartlett, Center Montville; Fred Hammond Hanson Bogart, Chester, Conn.; Oscar Merrill Bixby, Anson; Thomas Buck, Orland; George Harold Davis, Auburn; Elsie Eunice Fitzgerald, Oldtown; Gertrude Lee Fraser, Oldtown; George Estyn Goodwin, Gorham, N. H.; Clifford Dawes Harvey, Lewiston; Leroy Harris Harvey, Orono; Herbert Henry Leonard, Orono.

STUDENTS RECEIVING SPECIAL HONORS

SENIORS

Mark Jonathan Bartlett, Montville, Economics.
 Thomas Buck, Orland, Mathematics (twice) and Physics.
 Lewis Robinson Cary, Bowdoinham, Biology.
 George Harold Davis, Auburn, Physics.
 Benjamin Franklin Faunce, Norway, Physics.
 Clifford Dawes Harvey, Lewiston, Physics.
 Leroy Harris Harvey, Orono, Biology (twice).

JUNIORS

Henry Wilmot Chadbourne, Mattawamkeag, Mathematics.
 Henry Ernest Cole, South Portland, Mathematics.
 Walter Hampton Eldridge, Bucksport, Mathematics.
 Wesley Clarendon Elliott, Patten, Physics.
 Arthur Brookhouse Foster, Beverly, Mass., Chemistry.
 Henry Carter French, Rumford Center, Physics.
 Horace Parlin Hamlin, Orono, Physics.
 Marie Cecilia Rice, Bangor, Physics.

CATALOGUE OF STUDENTS

GRADUATE STUDENTS

Beck, William Porter, B. S.,	Bethel, Ohio,	Waterville.
Grover, Archer Lewis, B. M. E.,	Bethel,	Mrs. Graves.
Holley, Clifford Dyer, B. S.,	Farmington,	Mrs. Hayes.
Morse, Robert Brooks, B. A.,	Baltimore, Md.,	Orono House.
Poucher, George Edward, B. S.,	Greensburg, Ind.,	Mrs. Graves.

SENIORS

Bachelor, Arthur Willis,	North Sebago,	311 Oak Hall.
Barrows, William Edward, Jr.,	Augusta,	B. Θ. II. House.
Bartlett, Enoch Joseph,	Monroe,	207 Oak Hall.
Boland, Marion Genevieve,	Worcester, Mass.,	Mt. Vernon [House.
Buck, Henry Alfred,	Bucksport,	J. P. Spearen.
Bussell, Edith Mae,	Oldtown,	Oldtown.
Butman, James Warren,	Readfield,	A. T. Ω. House.
Carr, Harold Malcolm,	Sangerville,	K. Σ. House.
Chadbourne, Henry Wilmott,	Mattawamkeag,	207 Oak Hall.
Clark, Samuel,	Waterville,	A. T. Ω. House.
Chase, Nathan Ajalon,	South Paris,	H. Perkins.
Cole, Henry Ernest,	South Portland,	311 Oak Hall.
Davis, Alfred Ricker,	Auburn,	K. Σ. House.
Davis, Samuel Prince,	Portland,	B. Θ. II. House.
Delano, Edward Warren,	Abbot Village,	B. Θ. II. House.
Duren, Harry Elwood,	Richmond,	201 Oak Hall.
Durgan, George Washington, Jr.,	Sherman Mills,	209 Oak Hall.
Eldridge, Walter Hampton,	Bucksport,	101 Oak Hall.
Elliott, Wesley Clarendon,	Patten,	111 Oak Hall.
Farrington, Herbert Oscar,	Portland,	T. Simmons.
Fessenden, Lothrop Edwin,	Bridgton,	Mrs. C. A. Marsh.
Foster, Arthur Brookhouse,	Beverly, Mass.,	Park St.

French, Henry Carter,	Rumford Center, 302 Oak Hall.
Gilbert, Eugene Clarence,	Orono, T. Gilbert.
Hamilton, Andrew George,	Orono, Myrtle St.
Hamlin, Horace Parlin,	Orono, Main St.
Hennessy, Harold Stewart,	Bangor, B. Θ. II. House.
Holmes, Fred Eugene,	East Machias, 202 Oak Hall.
Johnson, Elbridge Augustus,	Portland, Mrs. A. Cowan.
Kallom, Frank Winthrop,	South Berlin, Mass., A. T. Ω. [House.
Kelly, Burchard Valentine,	Centerville, Mass., Orono House.
Kneeland, Henry Wilton,	Searsport, 302 Oak Hall.
Knight, Perley Charles,	South Gorham, O. T. Goodridge.
Knowles, Lida May,	Bangor, Mt. Vernon House.
Lowe, Sumner Sturdivant,	Cumberland, Mrs. A. Cowan.
Lyon, Alpheus Crosby,	Bangor, Φ. Γ. Δ. House.
McCarthy, Patrick Edward,	Lewiston, 201 Oak Hall.
Mansfield, Harold Wilder,	Union, 105 Oak Hall.
Margesson, Charles William,	Bangor, Φ. Γ. Δ. House.
Mosher, Percival Hildreth,	Pleasantdale, 208 Oak Hall.
Pease, Irving,	Bean's Corner, 307 Oak Hall.
Peck, Luther,	Monson, Mass., 201 Oak Hall.
Pressey, Frank Ethelbert,	Bangor, 102 Oak Hall.
Rackliffe, Clinton Nathan,	Easton, 312 Oak Hall.
Rice, Marie Cecilia,	Bangor, Mt. Vernon House.
Ross, Edwin Bishop,	Bangor, B. Θ. II. House.
Russell, Roy Elvert,	Livermore, 302 Oak Hall.
Sewell, Herbert Willis,	Wilton, Φ. Γ. Δ. House.
Silver, Arthur Elmer,	Silver's Mills, 312 Oak Hall.
Stephens, Charles Walter	Oldtown, Oldtown.
Stilphen, Charles Augustus,	Gardiner, Mrs. Good.
Thombs, William Brackett,	Gorham, A. T. Ω. House.
True, Edwin Stanley,	Portland, B. Θ. II. House.
Warren, John Clifford,	Westbrook, Κ. Σ. House.
Watson, Alvin Morrison,	Portland, Κ. Σ. House.
Wheeler, Allen Francis,	Brunswick, A. T. Ω. House.
Whittier, Ralph,	Bangor, A. T. Ω. House.

JUNIORS

Baker, Ernest Linwood,	Portland,	301 Oak Hall.
Benner, Archie Ray,	Waldoboro,	G. E. Thompson.
Blaisdell, Geneva,	Fort Fairfield,	Mt. Vernon [House.
Blaisdell, Melvin Merle,	Fort Fairfield,	102 Oak Hall.
Carr, Cleora May,	Oldtown,	Oldtown.
Chandler, Robert Flint,	New Gloucester,	Φ. Γ. Δ. House.
Chesley, Lloyd Almond,	Oldtown,	K. Σ. House.
Coffin, Leroy Melville,	Freeport,	Mrs. L. P. Harris.
Cole, Winfield Lee,	Biddeford,	A. T. Ω. House.
Collins, Fred,	Bar Harbor,	K. Σ. House.
Conner, Ralph Melvin,	East Wilton,	101 Oak Hall.
Cooper, Ralph Leonard,	Belfast,	A. T. Ω. House.
Crabtree, Leroy Brown,	Hancock,	K. Σ. House.
Crocker, Henry Kennedy,	Rockland,	B. Θ. Π. House.
Davis, Rodney Clinton,	Lewiston,	203 Oak Hall.
Dinsmore, Sanford Crosby,	Dover,	B. Θ. Π. House.
Dorticos, Carlos,	Woodfords,	K. Σ. House.
Douglass, Frank Libby,	West Gorham,	Mayo's Block.
Ellstrom, Victor Edwin,	Fitchburg, Mass.,	204 Oak Hall.
Everett, Chester Steele,	Attleboro, Mass.,	303 Oak Hall.
Foster, Samuel Joshua,	Bingham,	K. Σ. House.
Freeman, George Leonard,	West Gray,	K. Σ. House.
French, Harold Francis,	Glenburn,	O. T. Goodridge.
Goodridge, Oren Leslie,	Orono,	Main St.
Goodwin, Burton Woodbury,	Berry Mills,	Φ. Γ. Δ. House.
Graves, Sherley Preston,	Northeast Harbor,	H. W. Finn.
Harris, Philip Howard,	Portland,	B. Θ. Π. House.
Hartford, Edward Goodnow,	Calais,	H. W. Finn.
Hilliard, John Heddle,	Oldtown,	Φ. Γ. Δ. House.
Hinchliffe, Henry John,	Worcester, Mass.,	Φ. Γ. Δ. House.
Hinckley, Frances Augusta,	Oldtown,	Oldtown.
Kittredge, Claude Abbott,	Farmington,	A. T. Ω. House.
Leary, Thomas Edward,	East Hampden,	303 Oak Hall.
Lord, Cecil Arthur,	Bar Harbor,	Middle Street.
Loud, Warren Cornelius,	Caribou,	206 Oak Hall.
McCready, John Hollis,	Houlton,	A. T. Ω. House.

McCullough, Frank,	Lynn, Mass.,	B. Θ. II. House.	118
Maxfield, Amy Ines,	Sandypoint, Mt.	Vernon House.	
Mullaney, Roderick Edward,	Bangor,	A. T. Ω. House.	
Patrick, Stephen Edmund,	Gorham,	Dr. Whitcomb.	
Porter, Ernest Albee,	Eustis,	K. Σ. House.	
Rogers, Herbert Kemp,	Wellfleet, Mass.,	F. A. Abbott.	
Shaw, Scott Parker,	North Gorham,	110 Oak Hall.	
Sheahan, Harold Vose,	Dennysville,	301 Oak Hall.	
Simpson, Paul, Dyer,	Sullivan,	B. Θ. II. House.	
Sinclair, Karl Augustus,	Malden, Mass.,	303 Oak Hall.	
Small, Silas Gilman,	Lubec,	308 Oak Hall.	
Smith, Howard, Ausburn,	North Truro, Mass.,	[F. A. Abbott.	
Soper, Henry Melville,	Oldtown,	Oldtown.	
Stone, Charles Wesley, Jr.,	Milo,	Milford.	
Towse, Arthur Roy,	North Lubec,	301 Oak Hall.	
Treworgy, Isaac Emery,	Surry,	K. Σ. House.	
White, Ralph Henry,	East Machias,	309 Oak Hall.	
Whitney, Harvey David,	Auburn,	Φ. Γ. Δ. House.	
Wiley, Mellen Cleveland,	Bethel,	203 Oak Hall.	

SOPHOMORES

Alden, Carl Howard,	Gorham,	210 Oak Hall.
Averill, Roy Samuel,	Milltown,	210 Oak Hall.
Baker, Robert Clinton,	Taunton, Mass.,	Φ. Γ. Δ. House.
Bassett, Ralph Smith,	Dover,	A. A. Powers.
Bean, Paul Leonard,	Saco,	A. T. Ω. House.
Bearce, Ira M.,	Hebron,	205 Oak Hall.
Berry, Edward Robie,	Lynn, Mass.,	B. Θ. II. House.
Bradford, Luther Cary,	Turner,	B. Θ. II. House.
Brann, George Samuel,	Dover,	304 Oak Hall.
Breed, Everett Mark,	Brewer,	Mrs. T. Shatley.
Broadwell, Edwin Sherman,	Cleveland, Ohio,	Prof. J. H. [Huddilston.
Brown, Ernest Carroll,	Gorham,	Mrs. James Walton.
Brown, Horace A.,	Bradley,	Bradley.
Buker, Edson Bayard,	Brownville,	305 Oak Hall.
Case, Albert Deering,	Lynn, Mass.,	A. T. Ω. House.

Chaplin, Carroll Sherman,	Portland,	Φ. Γ. Δ. House.
Chase, Clifford Gray,	Baring,	308 Oak Hall.
Clifford, Edward Clinton,	West Falmouth,	Φ. Γ. Δ. House.
Colomy, Edward Wilmot,	Bangor,	Bangor.
Copeland, Lennie Phoebe,	Bangor,	Bangor.
Crowley, Elmer Bishop,	Indian River,	208 Oak Hall.
Davenport, Arthur Edward,	E. Brimfield, Mass.,	306 Oak [Hall.
Dinsmore, Ernest Leroy,	Whiting,	308 Oak Hall.
Dorticos, Phillip,	Woodfords,	K. Σ. House.
Farwell, Harry Hancock,	Boston, Mass.,	310 Oak Hall.
Fifield, Fred Victor,	East Eddington,	310 Oak Hall.
Flynt, Roy Horton,	Augusta,	B. Θ. Π. House.
Foubert, Charles Leon,	Danbury, Conn.	Main St.
French, George Augustus,	Portland,	F. A. Abbott.
Gage, Arthur Willard,	Dennisport, Mass.,	[F. A. Abbott.
Giles, Clyde Irving,	Skowhegan,	Orono House.
Gill, William Everett,	Camden,	Φ. Γ. Δ. House.
Gregory, Herbert Stanley,	Elmira, N. Y.,	Mrs. James [Walton.
Gulliver, Edward Charles,	Portland,	G. E. Thompson.
Haley, Harry Dennett,	Gardiner,	K. Σ. House.
Haskell, Roger,	Westbrook,	Mrs. E. Webster.
Herbert, Thomas Carroll,	Richmond,	104 Oak Hall.
Holmes, Ernest Randall,	Eastport,	A. T. Ω. House.
Hopkins, Ralph Thomas,	Bangor,	B. Θ. Π. House.
Johnstone, Leslie Ingalls,	Milford,	Milford.
Jones, Vaughn,	Bangor,	K. Σ. House.
Kingsbury, Ralph Waldo Emerson,	So. Brewer,	212 Oak Hall.
Lawrence, Leonard Alexander,	Eastport,	H. Perkins.
Leighton, Clifford Henry,	Addison,	F. A. Abbott.
Libby, Hollis Willard,	Machiasport,	J. P. Spearen.
Little, Leslie Eugene,	Bucksport,	F. A. Abbott.
Livermore, Scott Page,	Lynn, Mass.,	B. Θ. II House.
McIntire, Walter Draper,	Orange, Mass.,	305 Oak Hall.
Monk, Holman Waldron,	North Buckfield,	110 Oak Hall.
Morse, Frank Leander Staples,	Thomaston,	J. P. Spearen.
Olivenbaum, John Emanuel,	Jentland,	Φ. Γ. Δ. House.

Paine, Allen Thatcher,	Brewster, Mass., 109 Oak Hall.
Parker, Edward Alton,	Skowhegan, K. S. House.
Pearson, Ralph Howard,	Guilford, 304 Oak Hall.
Perkins, Connor Arthur,	Bucksport, K. S. House.
Phinney, Alverdo Linwood,	S. Portland, Fitzgerald House.
Porter, Karl Byron,	Oldtown, A. T. O. House.
Quimby, John Herman,	Goodale's Corner, 107 Oak Hall.
Richardson, Roy Henry,	Norwell, Mass., Mrs. T. Shatney.
Ricker, William Jewett,	Turner, 110 Oak Hall.
Sampson, Charles Henry,	Gorham, O. T. Goodrich.
Sawyer, James Herbert,	Saco, A. T. O. House.
Scott, William Erwin,	Dexter, Φ. Γ. Δ. House.
Small, Alvah Randall,	South Portland, 105 Oak Hall.
Small, Lottie Luella,	Auburn, Mt. Vernon House.
Smith, Elmer Garfield,	Portland, K. S. House.
Smith, Leroy Clifton,	East Exeter, Mrs. A. A. Walton.
Snell, Roy Martin,	Lagrange, 211 Oak Hall.
Soderstrom, Godfrey Leonard,	Hartford, Conn., Φ. Γ. Δ. House.
Talbot, Fred William,	Andover, 205 Oak Hall.
Talbot, James Rich,	East Machias, 309 Oak Hall.
Taylor, Alec Gladstone,	North Sullivan, B. O. II. House.
Taylor, Elliott Williams,	Hyannis, Mass., F. A. Abbott.
Taylor, Howard Smith,	Bangor, K. S. House.
Taylor, Thomas Francis,	Bangor, Bangor.
Terry, Orange Fanning,	Bridgeport, Conn., B. O. II. [House.]
Tucker, John Voden,	Stillwater, Stillwater.
Turner, Roland Lee,	Boothbay Harbor, A. T. O. [House.]
Webber, Mary Frances,	Bangor, Bangor.
Webster, Francis Howe,	Stockton Springs, 107 Oak Hall.
White, Alphonso,	North Sebago, Warren Reed.

FRESHMEN

Abbott, Curtis Eames,	Locke's Mills, Mrs. E. Prescott.
Adams, Harry William,	Portland, Pine Tree Club.
Allen, George Proctor,	West Gray, Mrs. W. S. Hurd.
Alton, Ralph Henry,	Lynn, Mass., Mrs. E. Prescott.
Ames, Bertram Eugene,	Lynn, Mass., Mrs. E. Prescott.
Armstrong, George Otty,	St. John, N. B., F. A. Abbott.
Bachelor, Herbert Walter,	East Winthrop, L. J. Shepard.
Bailey, Charles Lester,	Auburn, 112 Oak Hall.
Balentine, Florence,	Orono, Mt. Vernon House.
Barton, Murray Fernald,	Bradley, Bradley.
Beale, Harry Orlando,	North Anson, Mr. E. Webster.
Bearce, Edwin Freeman,	Auburn, B. O. H. House.
Beattie, George Wilson,	Oldtown, Oldtown.
Blaisdell, Harry G.	Bangor, Bangor.
Blodgett, Ralph Gilbert,	Warren, Mass., 306 Oak Hall.
Borikoff, George Konstantine,	Sofia, Bulgaria, J. P. Spearen.
Bowles, Clayton Wass,	Columbia Falls, Bangor.
Brawn, Harlie Weston,	Bradley, Bradley.
Brown, Archer Norwood,	Stillwater, Stillwater.
Burt, Alfred William,	Warren, Mass., K. S. House
Carle, George Wilmot,	Portland, Pine Tree Club.
Chalmers, Arthur Sumner,	Bangor, K. S. House.
Chatto, Byron Herbert,	East Surry, Mrs. E. Smith.
Churchill, Howard Lincoln,	North Buckfield, J. P. Spearen.
Clark, Walter Braden,	Houlton, H. W. Finn.
Colcord, Lincoln Ross,	Searsport, K. S. House.
Collins, Arthur Winfield,	Fort Fairfield, Φ . Γ . Δ . House.
Cotton, Ernest L.,	Cumberland Mills, Mayo's [Block.
Cowan, Benjamin Mosher,	Biddeford, A. T. Ω . House.
Crowe, Francis Trenholm,	Rumford Falls, E. Webster.
Crowe, Joseph Wilkinson,	Rumford Falls, 202 Oak Hall.
Dow, Henry Kingman,	Oldtown, Oldtown.
Drummond, Robert Rutherford,	Bangor, K. S. House.
Fifield, Ralph Herbert,	Dexter, Φ . Γ . Δ . House.
Flanders, Frank Leroy,	Howard, R. I., A. T. Ω . House.

Foss, Howard Colburn,	Farmington,	A. T. Ω . House.
Fraser, Robert Barr,	Oldtown,	Oldtown.
French, Prentiss Edwin,	Turner,	110 Oak Hall.
Fullam, William Edward Peabody,	Portland,	Miss A. T. Emery.
Garland, Clarence Leroy,	Bangor,	Φ . Γ . Δ . House.
Hamlin, Charles Mayo,	Orono,	Main St.
Harlow, Clarence Burr,	Brewer,	Brewer.
Harvey, Bartle Trott,	Orono,	Main St.
Haskell, Ralph Webster,	Westbrook,	E. Webster.
Hayes, Andrew Jenkins,	Oxford,	Mrs. E. Prescott.
Higgins, Roy Edwin,	Brewer,	Φ . Γ . Δ . House.
Hilliard, Edward Knight,	Oldtown,	Oldtown.
Hilton, Horace Alden,	Bangor,	B. Θ . II. House.
Hodges, Thomas Victor,	Boston,	B. Θ . II. House.
Huntington, George Kemp,	Lynn, Mass.,	Mrs. Reed.
Huot, Albert Laurence,	Lewiston,	112 Oak Hall.
Kay, Frank Wilbur,	Fiskdale, Mass.,	Pine Tree Club.
Kenrick, William Winslow,	Lynn, Mass.,	Warren Reed.
Kittredge, Clinton Daniel,	Milo,	Φ . Γ . Δ . House.
Lang, Charles Libby,	Harrison,	211 Oak Hall,
Learned, Frank Everett,	Waterville,	A. T. Ω . House.
Longfellow, John Gilman,	Monmouth,	L. J. Shepard.
McClure, James Harvey,	Bangor,	B. Θ . II. House.
McDermott, John Augustine,	Biddeford,	A. T. Ω . House.
Macfarlane, William James,	Pittsfield,	Mrs. E. Smith.
McGregor, Francis Howard,	Montague,	Pine Tree Club.
McNamara, Francis William,	Oldtown,	Oldtown.
Maddocks, William Samuel,	Oldtown,	Oldtown.
Malcolm, Hiram Battuel,	Gardiner,	Pine Tree Club.
Manson, Walter Blaine.	Gardiner,	209 Oak Hall.
Martin, Lloyd Auther,	Oldtown,	Oldtown.
May, John,	Rockland,	A. T. Ω . House.
Mitchell, Lester Hale,	West Newfield,	Φ . Γ . Δ . House.
Moody, Clare Joseph,	Winterport,	F. A. Abbott.
Moody, Percival Ray,	Biddeford,	A. T. Ω . House.
Mosher, Harry Dexter,	Orono,	College St.
Murphy, Cornelius Parnell,	Oldtown,	Oldtown.
Noddin, Ernest Earle,	North Anson,	E. Webster.

Parker, Charles Henry,	Glenburn,	Main St.
Pennell, Charles Weston,	Gray,	Mrs. W. S. Hurd.
Perkins, Newell Reed,	Skowhegan,	Φ. Γ. Δ. House.
Pooler, John Frederick,	South Brewer,	Φ. Γ. Δ. House.
Powell, Mabel Frances,	Orono,	Forest St.
Prouty, Charles Henry,	Northboro, Mass.,	Pine Tree [Club.
Roberts, Alfred Wesley,	Anson,	Mrs. Merriman.
Rogers, Elmer George,	Topsham,	J. P. Spearen.
Rogers, Raymond Francis,	Belfast,	108 Oak Hall.
Rogers, Robert Fisher,	Topsham,	J. P. Spearen.
Sampson, Freeman Marston,	Gorham,	O. T. Goodridge.
Sands, Roy Granville,	Foxcroft,	Miss A. T. Emery.
Scribner, Caleb Warren,	Patten,	111 Oak Hall.
Seabury, Ralph Lowe,	Yarmouth,	L. P. Harris.
Shaw, Walter Jefferson,	Orono,	North Main St.
Silvernail, Elmer Brinkerman,	Daytona, Fla.,	J. P. Spearen.
Skillings, Samuel Boynton,	Westbrook,	Pine Tree Club.
Sleeper, Florence Maude,	Milford,	Milford.
Smith, Carl David,	Revere,	Φ. Γ. Δ. House.
Smith, Dwight Freeman,	Skowhegan,	Φ. Γ. Δ. House.
Sprague, Adelbert Wells,	Bangor,	K. Σ. House.
Standley, Frederick Andrew,	Lynn, Mass.,	Warren Reed.
Stanley, Howard Arthur,	Beverly, Mass.,	Pine Tree Club.
Sweet, Calvin Arthur,	S. Atkinson,	Mrs. Merriman.
Sweetser, Ernest Osgood,	Cumberland Center,	204 Oak [Hall.
Taylor, Roy Edmund,	Springvale,	H. W. Finn.
Thatcher, Henry David Thoreau,	Dexter,	B. Θ. Π. House.
Thomas, Burton Merrill,	Portland,	B. Θ. Π. House.
Thomas, Herbert Arthur,	Andover,	108 Oak Hall.
Thomas, Lucian Alvah,	Rockland,	Mrs. W. S. Hurd.
Thomes, Edward Calder,	Portland,	B. Θ. Π. House.
Trafton, Ernest Eugene,	Auburn,	112 Oak Hall.
Trask, Oland Wilbur,	Woodfords,	K. Σ. House.
Walker, Albert Gould,	Thomaston,	J. P. Spearen.
Webster, Robert Adelbert,	Stockton Springs,	107 Oak Hall.
Weick, Frank Bridge,	Springfield,	Mrs. Marsh.
Weld, Moses Waldo,	Oldtown,	Oldtown.

Wentworth, Marion Barry,	Kennebunk Beach, Mt. Vernon [House.
White, Frank Osmond,	Orono, Mill St.
Whittier, Arthur Craig,	Farmington, Pine Tree Club.
Williams, George Seth,	Augusta, B. O. H. House.
Wood, Alphonso,	Belfast, 110 Oak Hall.
Woods, Carl William,	Knox Station, 212 Oak Hall.
Wyman, Ralph Emery,	Woodfords, Mrs. T. Shatney.

SHORT PHARMACY COURSE

SOPHOMORES

Burns, Frank Percy,	Westbrook, 204 Oak Hall.
Clarke, Ralph E.,	Freeport, L. P. Harris.
Tate, Walter Maurice,	South Corinth, 206 Oak Hall.

FRESHMEN

Bell, Carroll Julius,	Whiting, W. E. French.
Cowan, Ernest Lester,	West Hampden, 104 Oak Hall.
Cowles, Harry Davis,	Athol, Mass., J. P. Spearen.
Crocker, James Harry,	Oldtown, Oldtown.
Curran, E. Earl,	Bangor, Bangor.
Hoyt, Andy Laurin,	Dover, E. Webster.
Plummer, Merrill,	Addison, Orono House.
Quinn, William Francis,	Monson, Mass., W. E. French.
Race, James Leroy,	Boothbay, G. E. Thompson.
Ward, Arthur Stephen,	Fryeburg, 103 Oak Hall.
Wilson, Robert Potter,	Portland, J. P. Spearen.

SPECIAL STUDENTS

Bailey, Earland Frank,	North Anson, E. Webster.
Benner, Harry Delano,	Waldoboro, G. E. Thompson.
Hall, Guy,	South China, Mrs. Merriman.
Hamilton, Harry L.,	Oldtown, Oldtown.

Holt, William Douglass,	St. John, N. B.,	A. B. Foster.
Keys, Orman Leroy,	Stetson,	Stillwater.
Lewis, Charles Wesley,	Clinton,	307 Oak Hall.
Mansur, Herman Royal,	Pittsfield,	Mrs. Littlefield.
Merrill, John Nelson, Jr.,	Skowhegan,	Φ. Γ. Δ. House.
Nelson, John D.,	Houlton,	Orono House.
Phipps, William Edwin,	E. N. Yarmouth,	J. P. Spearen.
Puffer, Charles Loring,	Epping,	A. T. Ω. House.
Rastall, Walter Henry,	Chicago, Ill.,	K. Σ. House.
Reed, Clarence Edward,	Waldoboro,	G. E. Thompson.
Robbins, Chester Marquis,	Oldtown.	Oldtown.
Small, Guy Osman,	Kingfield,	Mrs. S. Gee.
Thompson, Edwin LeBaron,	Quincy, Mass.,	Miss A. T. [Emery.
Titus, Ray Jewett,	Head Tide,	Mrs. O. Abbott.
Williams, Charles Robert,	Putnam, Conn.,	Mrs. Merriman.
Williams, Mary MacGee,	Bangor,	Bangor.
Winslow, Charles Newell,	Waldoboro,	Mrs. O. Abbott.

SHORT COURSES IN AGRICULTURE

Bowers, Charles William,	Sherman Mills,	Mrs. S. Gee.
Downing, Herbert Plummer,	Ripley,	Mrs. C. Marsh.
Dunn, William Chestor,	Norway,	W. Page.
Gray, Everett Lyndon,	Prospect,	F. A. Abbott.
Low, Frederick Clark,	Brewer,	F. A. Abbott.
Mitchell, Clifton Cross,	Poland,	W. Page.
Newcomb, Oscar Elmer,	Perry,	Mrs. Merriman.
Sally, Everett Ashnum,	Madison,	Mrs. S. Gee.
Sanderson, Arthur Leroy,	East Waterford,	W. Page.
Sylvester, Arthur Clayton,	Mars Hill,	Mrs. S. Gee.
Tolman, Fred Moses,	Carroll,	K. Σ. House.
Tubbs, Acaph Carl,	Norway,	W. Page.
Weed, George Lewis,	Winterport,	F. A. Abbott.
Wilkins, Harley Mellen,	Livermore Falls,	Mrs. Merriman.

STUDENTS IN THE SCHOOL OF LAW

THIRD YEAR

Anderson, Thomas Alexander,	Hartland,	74 Third St.
Dunn, Patrick Henry,	Brewer,	Bass Building.
Higgins, Morris Prescott,	Orrington Center,	66 Wilson St.
Holman, Charles Vey,	New York City,	88 Broadway.
Kenniston, Hartley Garfield,	Phillips,	115 Essex St.
Lord, Harry,	Bangor,	79 Exchange St.
McKay, Malcolm,	Scotsville, N. S.,	250 Hammond [Street.
Mitchell, Adnah Jones,	Augusta,	250 Hammond St.
O'Halloran, James,	Bangor,	251 Union St.
Ritter, George William,	Monson, Mass.,	70 Charles St.
Robinson, William Henry,	Bangor,	74 Jefferson St.
Selkirk, Robert William,	Wilder, Vt.,	265 Main St.
Weatherbee, Albert Washington,	Bangor,	198 Broadway.
Wilson, Frank Palmer,	Belfast,	9 Boynton St.

SECOND YEAR

Fish, Charles Henry, Jr.,	Bangor,	7 Rollins Ct.
Gear, Thomas Reardon,	Whitneyville,	83 Somerset St.
Greeley, Harold Dudley,	Minneapolis, Minn.,	80 Maple [Street.
Merrill, John Bryant,	Bangor,	26 Jefferson St.
Morson, James Herbert,	Marshfield, P. E. I.,	50 Charles [Street.
Mudgett, Ulysses Grant,	Hampden,	Hampden.
Murray, Edward Patrick,	Bangor,	190 York St.
Osgood, Burt Stirling,	Kingman,	65 Summer St.
Putnam, Varney Arthur,	Danforth,	251 Union St.
Reid, Charles Hickson,	Bangor,	60 Lincoln St.
Thombs, George Warren,	Monson,	65 Summer St.
Violette, Nil Louis,	Van Buren,	74 Third St.
Winn, George Hayes,	Lewiston,	293 State St.

FIRST YEAR

Blanchard, Benjamin Willis,	Bangor,	118 Congress St.
Brown, Royal Weaver,	Boyd Lake,	252 Harlow St.
Bryant, Glidden,	Newcastle,	166 Essex St.

Buckley, William Wallace,	Winchendon, Mass., 65 Summer [Street.
Clarke, Edward Everett,	New Bedford, Mass., 50 Charles [Street.
Clough, George Edwin,	Monson, Mass., 50 Charles St.
Fish, Guy Rex,	Bangor, 7 Rollins Ct.
Fish, William James,	Bangor, 7 Rollins Ct.
Frye, William Nicholas,	Dexter, 33 Center St.
Haley, John Howard,	Savage, 235 Center St.
Hight, Clarence Bertram,	Athens, 55 Ohio St.
Lang, Alfred Alexander,	Zicques, P.R., 265 Hammond St.
Lougee, George F., Jr.,	Hampden, Hampden.
McLean, Neil Vincent,	Bangor, 33 Center St.
Mansur, Walter Granville,	Pittsfield, 33 Center St.
Potter, Paul,	Worcester, Mass., 74 Third St.
Sipprelle, Judson Emery,	Bangor, 197 Warren St.
Snow, Donald Francis,	Bangor, 134 Ohio St.

SPECIAL STUDENTS

Hadlock, George Russell,	Islesford, 166 Essex St.
Ryan, Matthew L.,	Salem, Mass.

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