Catalog of the University of Maine, 1907-1908

University of Maine

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CALENDAR

FALL SEMESTER, 1907

September 16, Monday,
September 17, Tuesday,
September 18, Wednesday,
September 19, Thursday,
November 26, Tuesday,
November 27, Wednesday,
December 2, Monday,
December 6, Friday,
December 22, Sunday,
December 31, Tuesday,

January 2, Thursday,
January 31, Friday,

Arrearage examinations begin.
Entrance examinations begin.
Registration begins, 1.30 P. M.
Fall semester begins.
Meeting of the Board of Trustees.
Thanksgiving recess begins, 5.30 P.M.
Thanksgiving recess ends, 12 M.
Sophomore prize declamations.
Christmas recess begins, 5.30 P.M.
Arrearage examinations begin
(Spring semester studies).

1908

Christmas recess ends, 7.45 A.M.
Fall semester ends.

SPRING SEMESTER, 1908

February 1, Saturday,
February 3, Monday,
February 22, Saturday,
March 30, Monday,
April 6, Monday,
April 20, 12 M.-24,
May 30, Saturday,
June 4, Thursday,
June 7, Sunday,
June 8, Monday,
June 8, Monday,
June 8, Monday,
June 8, Tuesday,
June 9, Tuesday,
June 9, Tuesday,
June 9, Tuesday,
June 10, Wednesday,
June 10, Wednesday,
June 10, Wednesday,
June 29, Monday,
August 7, Friday,

Registration.
Spring semester begins.
Washington’s birthday, a holiday.
Spring recess begins, 7.45 A. M.
Spring recess ends, 7.45 A. M.
Patriot’s day, a holiday.
Junior week.
Memorial day, a holiday.
Entrance examinations begin 8 A.M.
Baccalaureate address.
Convocation.
Class day.
Reception by the President.
Meeting of the Board of Trustees.
Receptions by the fraternities.
Alumni luncheon.
Address before the Phi Kappa Phi Society.
COMMENCEMENT.
Commencement dinner.
Meeting of the Alumni Association.
Commencement concert.
Summer term begins.
Summer term ends.
The University of Maine

FALL SEMESTER, 1908

September 14, Monday, Arrearage examinations begin.
September 14, Monday, Entrance examinations begin.
September 16, Wednesday, Registration begins, 1:30 P.M.
September 17, Thursday, Fall semester begins.
November 24, Tuesday, Meeting of the Board of Trustees.
November 25, Wednesday, Thanksgiving recess begins, 5:30 P.M.
November 30, Monday, Thanksgiving recess ends, 12 M.
December 4, Friday, Sophomore prize declamations.
December 22, Tuesday, Christmas recess begins, 5:30 P.M.

1909

January 2, Saturday, Christmas recess ends, 7:45 A.M.
January 29, Friday, Fall semester ends.

SPRING SEMESTER, 1909

January 30, Saturday, Registration.
February 1, Monday, Spring semester begins.
June 9, Wednesday, Commencement.

CALENDAR OF THE COLLEGE OF LAW

1907

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

1908

January 8, Wednesday, Winter term begins.
March 18, Wednesday, Winter term ends.
March 25, Wednesday, Spring term begins.
June 10, Wednesday, Commencement.
September 30, Wednesday, Fall term begins.
December 16, Wednesday, Fall term ends.

1909

January 6, Wednesday, Winter term begins.
March 17, Wednesday, Winter term ends.
March 24, Wednesday, Spring term begins.
June 9, Wednesday, Commencement.
The University of Maine

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Norway
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Westbrook
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Bangor
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Dean of the University

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* Arranged in groups in order of seniority of appointment.
† Absent on leave.
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   Assistant Professor of English
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   Acting Assistant Professor of English
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   Assistant Professor of Civil Engineering
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   Assistant Professor of Romance Languages
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   Assistant Professor of Horticulture
JAMES EDGAR McCLINTOCK, B. S. 40 Main Street
   In Charge of Agricultural Extension Work
WALTER MOLBRAY CURTIS, S. B. College Street
   Assistant Professor of Mechanical Engineering
HARLEY RICHARD WILLARD, M. A. 40 Main Street
   Assistant Professor of Mathematics
EARNEST DAVID WAID, B. Sc. 57 Main Street
   Assistant Professor of Agronomy

* Absent on leave.
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College Street

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Instructor in History (Summer Term)

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Instructor in Chemistry (Summer Term)  
Campus

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Instructor in Wood and Iron Work  
Mill Street

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Instructor in English

PERCY LORING REYNOLDS, M. D.  30 Main Street  
Physical Director and University Physician

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Instructor in Mathematics

WINDSOR PRATT DAGGETT, Ph. B.  Middle Street  
Instructor in Public Speaking

CHARLES JENKINS CARTER  6 Pine Street  
Instructor in the Machine Shop

GUSTAV FREDERICK WITTIG, B. S., E. E.  78 North Main Street  
Instructor in Electrical Engineering

ARTHUR CRAIG WHITTIER, B. S.  College Street  
Assistant Chemist in the Experiment Station

JOANNA CARVER COLCORD, B. S.  College Street  
Assistant Chemist in the Experiment Station

HENRY WALTER BEARCE, B. S.  College Street  
Instructor in Physics

DAYTON JAMES EDWARDS, B. S.  88 Main Street  
Instructor in Biology

PAUL LEONARD BEAN, B. S.  28 North Main Street  
Instructor in Civil Engineering

ROBERT EDMUND CLAYTON, B. S.  105 Forest Avenue, Bangor  
Instructor in Chemistry

GLADYS ETHEL FELLOWS, B. A.  
Instructor in Romance Languages  
Campus
The University of Maine

LESLIE IRVING JOHNSTON, B. S.  
Instructor in Civil Engineering  
Milford

JAMES SEYMOUR, Ph. G., B. S.  
Instructor in Chemistry  
College Street

HENRY LEWIS SWEET, B. A.  
Instructor in Mathematics  
College Street

WILLIS FLYE WASHBURN, B. S.  
Instructor in Chemistry  
19 Mill Street

CHARLES SYLVESTER RIDGWAY, B. S.  
Instructor in Botany  
78 North Main Street

ARTHUR RUSSELL LORD, B. S.  
Instructor in Mathematics and Physics  
Campus

GEORGE EDWARD PEARSON, M. A.  
Instructor in English  
Pond Street

ARTHUR RUSSELL LORD, B. S.  
Tutor in Civil Engineering  
Campus

CARLETON CHASE MURDOCK, B. A.  
Tutor in Physics  
61 Main Street

CHARLES HENRY SAMPSON, B. S.  
Tutor in Drawing  
Campus

FOREST JOHN MARTIN, LL. B.  
105 Cumberland Street, Bangor

Resident Lecturer on Common Law Pleading and Maine Practice

HUGO CLARK, C. E.  
5 Broadway, Bangor

Resident Lecturer on Equity Pleading and Practice

CHARLES HAMLIN, M. A.  
25 Fifth Street, Bangor

Lecturer on Bankruptcy and Federal Procedure

LUCILIUS ALONZO EMERY, M. A., LL. D.  
Ellsworth

Lecturer on Roman Law and Probate Law

LOUIS CARVER SOUTHARD, M. S., LL. D.  
Boston

Lecturer on Medico-Legal Relations

ASSISTANTS AND OTHER OFFICERS

STEPHEN JOHN FARRELL  
Assistant in Physical Training  
Forest Avenue

MAUDE BROWN COLCORD  
Assistant in the Library  
College Street
The University of Maine

ISABEL MONRO, B. S.
Cataloger in the Library
1 Forest Avenue

BERTHA COREY WHITTEMORE
Assistant in the Library
1 Forest Avenue

REX CARLETON GELLERSON, B. S.
Inspector in the Experiment Station
Campus

CYRUS SKILLINGS WINCH
Taxidermist in the Museum
12 Mill Street

MICHAEL H. DEMPSEY
Herdsman on the Farm
Campus

ANDREW MAYHEW SHAW
Superintendent of Grounds and Greenhouses
Park Street

FRANK MORRISON
Foreman of the Farm
Campus

HALSEY RICHARDSON WING
Head Janitor
Campus

GEORGE ABRAHAM COLBURN
Head Carpenter
Bennoch Street

GRACE MARY COLBURN
Cashier
Bennoch Street

OLA HELEN PERRIN
Stenographer to the President
College Street

ANNIE MARIE SNOW
Clerk and Stenographer to the Director of the Experiment Station
58 Main Street

VIVIAN AUGUSTA PAGE,
Stenographer to the Deans and the Secretary
21 Pine Street

BLANCHE FOLSOM POOLER
Stenographer in the Experiment Station
Stillwater Street

NELLIE WILKINS LANE
Matron of the Mt. Vernon House
Campus

HENRY ATLEIGH MILLET
Meteorological Observer in the Experiment Station
Campus

WALTER ANDERSON
Poultry man in the Experiment Station
Campus

ROYDEN LINDSAY HAMMOND
Seed Analyst and Photographer in the Experiment Station
59 Main Street

FRANK DELMONT STERRY
Laboratory Assistant in the Experiment Station
Campus
STANDING COMMITTEES OF THE FACULTY

Admission to College
The President, the Deans (sub-committee), Professor Aubert, Professor Carr, Professor Chase, Professor Chrysler, Professor Colvin, Professor Drew, Professor Estabrooke, Professor Huddilston, Professor Segall

Advanced Degrees
Professor Fernald, Professor Chase, Professor Colvin, Professor Estabrooke, Professor Walz, Professor Weston

Approved Tutors
Professor Hart, Secretary Balentine

Athletics
Professor Jones, Professor Boardman, Doctor Reynolds

Bachelor's Degree
Professor Stevens, Professor Colvin, Professor Hurd, Professor Weston

Bulletins
Professor Jones, Professor Merrill, Professor Wheeler

Catalog
Professor Stevens

Courses
Professor Hart, Professor Boardman, Professor Drew, Professor Stevens

Debate
Professor Estabrooke, Professor Colvin, Mr. Daggett, Professor Sprague

Delinquent Students
Professor Boardman, Mr. Daggett, Professor Ganong, Mr. Grover, Professor Willard

Entrance Examinations
Professor Stevens

* The member whose name is printed first is the chairman of the committee.
The University of Maine

Fitting Schools
Professor Estabrooke, Professor Carr, Professor Chase, Professor Davidson, Professor Hart (Secretary), Professor Huddilston, Professor Stevens

Health
Doctor Reynolds, Professor Colvin, Professor Jackman, Professor Russell

Honors
Professor Stevens, Professor Carr, Professor Huddilston

Lectures
Professor Chase, Professor Segall, Professor Sprague

Library
Professor Jones, Professor Colvin, Professor Estabrooke, Professor Jackman

Military Work
Captain Brown, Professor Jewett, Director Woods

Press
Professor Jones, Professor Carr, Professor Wheeler

Registration
Professor Stevens, Professor Drew, Professor Hart

Rules
Professor Hart, Professor Stevens, Director Woods

Summer Term
Professor Stevens

Student Advisers
For freshmen in all courses: Professor Hart
For all other students: the heads of the departments in which their major subjects are taken

Student Organizations Other Than Athletics
Professor Jones, Mr. Daggett, Professor Tower

Tuition Loans
President Fellows, Professor Estabrooke, Professor Fernald

The University Council
Faculty Members: President Fellows, Professor Boardman, Professor Hart, Professor Stevens
Seniors: Mr. Chase, Mr. Hanscom, Mr. Jacobs
Juniors: Mr. Higgins, Mr. Knight
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."
The University of Maine

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 $350,000 for the material equipment. The present value of the buildings and equipment belonging to the University, including gifts other than those made by the State, is estimated at $750,000.

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 Congress, approved March 17, 1906, the University receives an appropriation of $5,000 a year for work in the Agricultural Experiment Station. This appropriation will increase by $2,000 a year until it reaches $15,000.

By an amendment to the agricultural appropriation bill, approved March 4, 1907, the University receives $5,000 in 1897, and an addition of a like amount each year until the sum reaches $25,000.

Under an act of the Legislature, approved March 26, 1907, the University receives $65,000 a year for each of the years 1907 and 1908 for maintenance.

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, an arm 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 University of Maine

The Bangor Railway and Electric Company railroad runs through the University grounds. Visitors may 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 College of Law is located in the Exchange Building, Bangor, at the corner of Exchange and State streets.

THE BUILDINGS AND THEIR EQUIPMENT

Oak Hall.—In the northern part of the campus 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 rooms for students, and is furnished with bath rooms. It is heated by steam, supplied with water, and lighted by electricity.

Fernald Hall.—This building, named in honor of Merritt C. Fernald, LL.D., President of the University from 1879 to 1893, is a two-story brick building. 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 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 mineralogical laboratory, dark rooms, and a laboratory for freshman work. In the basement are an assay laboratory, a laboratory for water analysis, a room for organic preparations, and store rooms.

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 University Exchange, four recitation rooms, and part of the museum. On the second floor are the botanical and zoological laboratories, recitation rooms for the departments of biology, English, and modern languages, and the remainder of the museum. On the third floor are recitation rooms for the departments of economics, philosophy, and modern languages, the modern language seminary room, and the psychological laboratory.

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.
The University of Maine

It was erected for the departments of civil and mechanical engineering, but is at present occupied chiefly by the departments of civil engineering, physics, and mechanics and drawing. On the ground floor are four recitation rooms, instrument rooms, an optical room, and the offices of the professors of civil engineering and mechanics and drawing. On the second floor are the offices and recitation rooms of the professors of physics, Greek, and Latin, two physical laboratories, and the physical apparatus rooms. On the third floor are two large, well lighted drawing rooms for the use of the departments of civil engineering and mechanics and drawing, and a filing room containing a collection of blue prints belonging to the department of civil engineering. In the basement are the electrical laboratory and the photometer room of the department of physics, and the cement testing laboratory. On the fourth floor is another photometer room for the use of students in physics.

Alumni Hall.—To the northeast of Coburn Hall stands Alumni Hall, erected in 1900. 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 office of the Dean of the University; the second floor contains the university chapel with a large pipe organ in the choir gallery, and the drill hall with a running track in the gallery. In the basement under the drill hall are the offices of the military instructor and the physical director, the baseball cage, 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.

Lord Hall.—This building, named in honor of President Henry Lord, of the Board of Trustees, is designed for the departments of mechanical and electrical engineering. It consists of a main part 82 x 56 feet in area and two stories in height, and an ell 125 x 42 feet partly
of two stories and partly of one story. It contains three recitation rooms, a large drawing room, the shops, suitable laboratories, and offices for the professors and instructors in the two departments concerned. The mechanical laboratory contains a Riehle testing machine of 60,000 pounds capacity; an oil testing machine manufactured by Tinius, Olsen & Co., of Philadelphia, and other oil testing apparatus; belt testing apparatus, steam separators, calorimeters, and injectors. The hydraulic laboratory in the basement contains steam pumps for testing, a pressure tank, and other apparatus for experimenting in the flow of water in pipes, weir measurements, etc. The forge room is newly equipped with down draft forges, manufactured by the B. F. Sturtevant Co., of Boston. 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. In the third story are located some of the recitation rooms and offices used by the department of agriculture and the agricultural extension work.

Holmes Hall.—This is a two-story brick building, 81 x 48 feet, standing south of Alumni Hall. It is occupied by the Maine Agricultural Experiment Station and is arranged as follows:

On the ground floor are five large chemical laboratories used in the analysis of foods, feeding stuffs, and fertilizers; the laboratory for vegetable pathology; and the biological laboratory. The general office and mailing room, the director's office, the laboratory for seed testing and photography, the entomological laboratory, and the library are on the second floor.

In the basement are rooms for the boiler, for the gas machine, for the grinding and preparation of samples, for the calorimeter, a kitchen used in the experiments upon the food of man, culture and preparation rooms used by the vegetable pathologist, and rooms for the storage of fuel, chemicals, and glass ware. The large attic is used for the storage of samples and supplies. With the exception of the thermometers and rain gauge, the meteorological apparatus is in this building. The building is heated by steam, supplied with gas and electricity, and is thoroughly equipped with apparatus for the work of agricultural investigation.

Library.—The library, completed in 1906, is the most attractive building on the campus. For its erection and furnishing the sum of $55,000 was given, without conditions, by Mr. Andrew Carnegie. The exterior is of Hallowell granite, furnished by the Hallowell Granite Works at a price far below the market rate. The stacks were erected by A. D.
Houghton, class of 1887, at a price considerably less than that of the regular stack manufacturers.

The building is two stories above a basement which is almost entirely above the ground level. The stacks are in the rear of the main building, and have a capacity of 75,000 volumes, with a cataloging room on the first floor, opening from the librarian’s office. The first floor of the main building contains an entrance hall, open to the dome; on one side is a periodical room in the rear of which is a room for reserved books, and on the other is a reference room from which the librarian’s office leads; there is a women’s room on this floor. The second floor has a gallery surrounding a central open space, and on its walls, and in the entrance hall below, are the interesting collections of the University Guild; on the second floor also are a lecture hall, with a seating capacity of over one hundred and twenty-five, and five seminar rooms. The basement contains a newspaper room, a club room in which meetings of the various student organizations may be held, janitor’s room, store room, and men’s room.

The library is heated by steam and lighted by electricity, and is thoroughly ventilated. Each floor of the stacks and each seminar room is connected by an intercommunicating telephone system with the librarian’s office, the assistant’s desk, and the janitor’s room, and the librarian’s office has telephone connection with the University branch exchange.

**The Power House.**—A wooden building, 30 x 56 feet, just north of Alumni Hall, 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, which comprise the lighting plant. Students in the electrical engineering course receive instruction in the care and running of this equipment.

**The Horticultural Building.**—The greenhouses, offices, and laboratories for horticultural work lie just east of Holmes Hall. The greenhouses cover about 4000 square feet of surface, are heated with hot water, and furnish ample opportunity for the demonstration of the practical culture of flowers and vegetables under glass. In this building is an herbarium of economic plants, which is of increasing interest and value.

**The Dairy Building.**—The Dairy Building, 50 x 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 indus-
try, 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 by steam and supplied with hot and cold water. Power is furnished by a six horse power engine.

Central Heating Plant.—The new central heating station is located across the car tracks from the University buildings, just above the Sigma Alpha Epsilon house, and on ground low enough so that practically all the buildings to be connected will drain by gravity to the plant, thus saving pumping or lifting of the returns.

The station is a plain red brick structure, without any attempt at ornamentation, but of good proportions, and large enough to provide room for present needs and allow for considerable future extensions.

The pump pit is 8 x 17 1/2 feet, the engine room 17 1/2 x 40 feet, the boiler room 40 x 42 feet, and the proposed coal pocket 32 x 42 feet.

The chimney is 100 feet high, and 60 inches in diameter. It is of radial brick construction and stands on a solid ledge. The station equipment consists of three 72-inch boilers, 17 feet 6 inches long, with 16 feet tubes. They are of butt joint construction, with double cover strips, and capable of running 150 lbs. pressure if necessary. In connection with the boiler plant there are two 6 feet by 4 feet by 6 inches boiler feed pumps, with receiving tank, for handling the return water of condensation as it comes back from the buildings, and putting it into the boilers. All necessary provisions have been made for the future installation of engines and generators to furnish light and power for the University when practicable.

The Agricultural Building.—The new agricultural building, now in process of construction, will be ready for occupancy in September, 1908. The last legislature made an appropriation of $50,000 for the erection of this building. It will be 63 x 100 feet, built in Tudor style of architecture, of red brick, granite, and slate. The building will furnish offices, class rooms, and laboratories for the departments of agronomy, animal industry, horticulture, veterinary science, bacteriology, forestry, agriculture, biological chemistry, and agricultural extension work.

The Farm Buildings.—The lower barn, 100 x 50 feet, contains a modern tie-up with 26 stalls, two grain rooms, two bull rooms, nursery, calf room, and silo, and has storage capacity for 150 tons of hay and 100 tons of silage. The upper barn, 100 x 40 feet, contains a class room for instruction in stock judging, stalls and pens for digestion experiments,
rooms for grain and storage, scales for weighing animals, an electric
motor for power, and a mill for grinding. The barns are lighted by
electricity and supplied with water and steam. The basements of the
barns contain storage rooms for manure and roots, and pens for swine.
The sheep barn, 125 x 20 feet, is of special design and contains six large
pens, a nursery, and a storage room. The poultry plant consists of an
incubator house, 31 x 31 feet, a warmed breeding house 150 x 15 feet,
two curtain front houses, 150 x 14 feet, and 120 x 16 feet, and a food house
and laboratory 30 x 39 feet. These houses accommodate 1,000 mature
birds. There are also detached brooder houses capable of caring for
2,500 chicks. Two tool houses furnish about 10,000 square feet of floor
room for the storage of wagons and farm machinery.

Directly east of the new agricultural building is to be erected the com­
ing year an octagonal stock judging pavilion 50 feet in diameter. The
interior is to be fitted with seats in amphitheatre style, and may be used
for large University gatherings.

A modern up-to-date piggery, 28 x 40 feet in size, has been erected. It
contains eight pens, together with grain and feed cooking rooms.

A ten-room farm cottage to be occupied by the men employed in the
different departments comprising the College of Agriculture has also been
erected this year.

The Mt. Vernon House.—This is a wooden building, completed in
1898, which provides dormitory accommodations for women. It is situ­
atcd near the recitation and laboratory buildings, upon a site overlooking
the campus and commanding a beautiful view of the river, villages, and
mountains. It is two stories in height, built in the colonial style,
and consists of a long central portion and two wings. It contains a
parlor, dining-room, kitchen, bathroom, 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 elec­
tric lights. 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 matron.

The Fraternity Houses.—Nine of the student fraternities occupy
club houses, and two more are in process of erection. Six of the houses
are on the campus, and two 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.
The University of Maine

The Infirmary.—A small wooden building has recently been erected on the back campus, to be used in caring for any cases of infectious disease that might appear among the students. It contains a ward for women, as well as one for men, with sanitary, comfortable, and convenient equipment for patients.

Other Buildings.—In addition to the buildings already described, there are several 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.

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-yard straightaway, and is graded and laid out for football, baseball, and field athletics.

The Library

The library contains thirty-four thousand bound volumes and eight thousand pamphlets. Some two thousand volumes of especial interest to the Experiment Station are kept in the Station building, and nearly three thousand law books are shelved in the rooms of the College of Law. Reference libraries are maintained in departmental rooms by those departments which require them.

More than half the volumes in the library have been added within the last few years. Accessions average about 2,500 annually, and the greater part of these are acquired by purchase. In large part purchases are made of books selected by heads of departments, and this method results in a collection of great working value.

The library is classified according to the Dewey system, slightly modified; there is a card catalog arranged by authors and subjects; access to the shelves is entirely unrestricted. Students may borrow three volumes at a time, to be retained three 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 overtime. 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 per-
sons may obtain the privileges of the library upon application to the Librarian. The Librarian and his assistants are glad to give advice and help at any time.

During the fall semester of each year, a series of three lectures is given by the Librarian upon the following subjects: The Library and Its Use, Classification and the Catalog, and Reference Books and Their Use. Attendance upon these is required of freshmen and others in their first year at the University, with the purpose of giving them some idea of the opportunities the library offers and suggestions that will aid them in its use.

The Librarian also offers an elective course in the spring semester on bibliography,—the development of books and libraries, and the principles of library administration. This course consists of lectures, with collateral reference work, one hour a week, and may count for credit towards graduation.

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. Through the courtesy of the late Hon. L. D. Carver, State Librarian, public documents of a number of other states are received, in accordance with a series of exchanges arranged by him.

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 8.00 A. M. to 12.00 M., and from 1.30 to 5.30, and from 7.00 to 9.30 P. M., Sundays and legal holidays excepted. On Sunday it is open from 2.30 to 5.30 P. M. During the vacations it is open from 9.00 A. M. to 12.00 M. and from 2.00 P. M. to 5.00 P. M. each week day, except Saturday, when it is open in the forenoon only.
GILMAN ARTHUR DREW, Director  
Curator of the Zoological Collections

LUCIUS HERBERT MERRILL  
Curator of the Geological Collections

MINTIN ASBURY CHRYSLER  
Curator of the Botanical Collections

CYRUS SKILLINGS WINCH  
Taxidermist and Assistant Curator of the Zoological Collection

The museum is located in the wing of Coburn Hall and in an adjoining room in the main part of the building.

A taxidermist devotes his entire time to the museum, and contributors may be assured that their donations will be properly cared for. Valuable specimens that could be saved for the museum with little expense of time or money are frequently allowed to go to waste. While the museum is not in a position to pay for specimens it will gladly arrange for their transportation, and the name of the donor will be placed on the specimen label. The locality and date of collection should accompany each specimen, as well as the name of the donor and such other information as might prove valuable.

Geological Collections.—These collections occupy the upper floor of the wing of Coburn Hall where arrangements are being made to give them proper display. The collections include a general collection of the more important fragmental, crystalline, and volcanic rocks; a collection of building stones; a series designed to illustrate the rocks of the State; a general collection of the more common minerals; a collection of economic minerals furnished by the U. S. National Museum; an educational series of rocks furnished by the U. S. Geological Survey; and a small collection of plant and animal fossils.

The collections illustrating the mineral resources of the State may be made of great value, both from the scientific and economic standpoint, and especial pains will be taken to build up the collections as rapidly and completely as possible.
The University of Maine

Zoological Collections.—These collections occupy the lower floor of the wing of Coburn Hall and arrangements are being made to place exhibition cases in the corridors. Some of the alcoholic and formaline material is placed in wall cases in the biological laboratories. The collections consist of a number of the larger mammals of the State, a small set of exotic mammals, a more complete working collection of native birds’ nests and eggs, an illustrative collection of the other groups of vertebrates, a rather large collection of the shells of native and exotic mollusca and illustrative collections of the other groups, dry, alcoholic, and prepared as microscopic objects.

The taxidermist has in mind a number of groups of Maine mammals and birds which will probably be on exhibition before many months. Many bird and mammal skins have been added during the summer, some by collection and others by donation. Information that will aid in preparing bird and mammal skins so that they can be mounted properly will gladly be furnished those who care to aid in increasing the value of the collections.

Botanical Collections.—These collections are situated in a room on the second floor of Coburn Hall, and in wall cases in the biological laboratories. The herbarium includes several collections of considerable value, the most important of which is the one presented to the University by Mr. Jonathan G. Clark, of Bangor, and made by the late Rev. Joseph Blake. It contains more than 7000 species of both flowering and flowerless plants, and represents more especially the flora of Maine and other New England States, but includes many forms from the western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia. The late Professor Harvey left to the herbarium the general collections accumulated during his connection with the University, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins’s Algae of the Maine coast, Halsted’s Lichens of New England, Halsted’s Weeds, Ellis and Everhard’s North American Fungi, Cook’s Illustrative Fungi, Underwood’s Hepaticæ, Cummings and Seymour’s North American Lichens, and a collection of economic seeds prepared by the U. S. Department of Agriculture. A number of specimens of wood, etc., representing the forest flora of the Philippines have recently been acquired, and plans are laid for adding a set illustrative of the timber trees of this State.
The University of Maine

THE ART COLLECTION

The establishment of the Classical department in the University of Maine in 1899 marked the beginning of a fresh impetus in the College of Arts and Science. Parallel with the introduction of these studies has been the interest in an art collection which would ultimately serve to vitalize and intensify the work in the Humanities.

The collection which has gone forward with rapid growth consists of photographs, prints, engravings, polychrome reproductions, and plaster casts. Many of the large reproductions are framed and the entire collection has found a fitting home in the Library, the gallery of which is well adapted to the exhibition of many of the plaster-cast reliefs and the larger framed works. The collection is distributed on the first and second floors, in the large lecture room and in a seminar room. In the latter is a specially constructed cabinet for the mounted photographs.

The entire collection numbers upwards of 4000 reproductions of various sorts covering the fields of Classical and Renaissance architecture, sculpture and painting. The illustrations for the Greek, Florentine, and Venetian schools are particularly representative. For much of the most important work the photographs are supplemented by lantern slides.

The University is fortunate in possessing many of the famous polychrome prints published by the Arundel Society; these and many other colored reproductions covering nearly all the great masters of Italian painting have been framed; and in the case of the Madonna della sedia and the Sistine Madonna the reproductions were imported in the frames which are stucco copies of the originals in Dresden and Florence.

The large lecture room in the Library contains examples of the work of the chief Florentine and Umbrian masters of the 14th and 15th centuries, arranged on the walls in historical sequence. The gallery of the second floor is devoted to masters of the High Renaissance.

For the study of Greek and Roman antiquity the Classical department has a large collection of photographs and lantern slides. A stereopticon lantern is a part of the regular equipment in Classics and Art.

ORGANIZATIONS

The following is a list of organizations existing in the University: The Deutscher Verein, the Debating Society, the Electrical and Mechanical Society, Alpha Zeta, the Agricultural Club, the Civil Engineering Society, the Agricultural Society, the Chemical Society, the Literati, the Dramatic Club, the Phi Kappa Phi (honorary), the Young Men’s Christian Association, the Young Women’s Christian Association, the Athletic Association, the Glee Club, the Instrumental Club, the Band.
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Junior Electrical and Mechanical Society.—The Junior Electrical and Mechanical Society aims to unite the interests of the electrical and mechanical students and to keep its members in touch with the practical side of engineering. The society meets each week when topics of practical interest are explained and discussed. All juniors in electrical or mechanical engineering are eligible to membership, and seniors are honorary members.

Alpha Zeta.—The Maine chapter of Alpha Zeta, the national agricultural fraternity, was organized at the University in 1905. Chapters exist in fourteen other universities. Membership is honorary and is restricted to those attaining high class standing, or to those who have shown marked ability along the lines of agricultural study and research.

The Agricultural Club.—This organization is composed of students taking agricultural courses. Meetings are held throughout the college year, at which times important agricultural topics are discussed by members of the club, and also by prominent speakers from this and other states.

The University of Maine Dramatic Club.—The Dramatic Club aims to make a practical study of the acted drama, and to present each year before the public one or more representative plays. Membership is determined by competitive trials to which all undergraduates are eligible.

The Literati.—This is an organization in the College of Arts and Sciences for the promotion of the literary, dramatic, and musical interests of the University.

Phi Kappa Phi.—The Phi Kappa Phi is an honorary society. At the end of the fall semester 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 in the collegiate department, and two from the College of Law, 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. Religious services are held in the Library, and classes for the study of the Bible are conducted on Sunday. This association is a branch of the national Young Men's Christian Association.

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UNIVERSITY PUBLICATIONS

The Annual Catalog 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 Annual Report of the Trustees, President, and Treasurer, to the Governor and Council of the State.—The report of the trustees and president includes an account of the general affairs and interests of the University for the year, and the report of the Experiment Station. The report for the odd years contains the biennial catalog of graduates.

The University of Maine Studies.—These are occasional publications containing reports of investigations or researches made by university officers or alumni. The following have been issued:
1. The Effect of Magnetization upon the Elasticity of Rods. J. S. Stevens.

The University Circulars.—These are occasional pamphlets, issued for special purposes. Those now ready for distribution relate to the Classical Course, the Courses in Agriculture, the Courses in Pharmacy, the College of Law, the College of Arts and Sciences, the Courses in Engineering, the Course in Forestry, Student Expenses, and the Summer Term.

The Maine Bulletin.—This is a publication issued monthly during the academic year, to give information to the alumni and the general public.

The Annual Report of the Experiment Station, and the Experiment Station Bulletins.—These give complete results of the work of the station.
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THE MAINE CAMPUS.—This is a journal published weekly during the academic year by an association of the students.

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

THE BLUE BOOK.—This is a literary magazine published monthly by the students.

MILITARY INSTRUCTION

Military instruction is required by law. The department is in charge of an officer of the regular army, detailed by the President of the United States for this purpose. United States army rifles, model 1898, ammunition, and accoutrements are furnished by the War Department. The course makes especial reference to the duties of Infantry officers of the line. The students are organized into an infantry battalion of four companies, 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. These rules include the minimum course of instruction that must be covered, and the minimum time that must be devoted to this instruction.

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

For commissioned officers, the new olive-drab service uniforms prescribed for infantry officers of the United States Army, except that "Maine" insignia and buttons are used; for non-commissioned officers, the new olive-drab service uniforms of the United States Army, except that "Maine" insignia and buttons are used, and trousers instead of breeches. The total cost of the uniform is $14.15. 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.

The three seniors who attain the highest standing in the military department are reported to the military secretary to 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 required as follows:

All students physically qualified are required to take one year's military work during their first year at the University, except that those admitted to advanced standing may elect other work equal to one credit. One credit is allowed for this work. Those physically disqualified are
required to elect other work equal to one credit in lieu of military work. Graduation requirements include one year's military work, or a substitute under the above conditions. No fractional credit for military work will count towards graduation. Military instruction is arranged in a four years' course. After the freshman year the work is elective. Students in the College of Law, the School Course in Agriculture, and the Short Course in Pharmacy, are excused from military work.

The grades and relative rank of officers and non-commissioned officers will be determined by the Professor in charge, subject to the approval of the President.

**PHYSICAL TRAINING**

Physical training is required of juniors and sophomores two hours per week. Credit is given on the basis of three hours of physical training to one hour of recitation. Seniors and freshmen may elect this work and receive credit. Students registered on athletic teams are excused from this prescribed physical training during the time they are engaged in the regular athletic training, but no credit will be given for the athletic training unless the physical training is taken for the remainder of the year. Sophomores and juniors electing military work will be excused from work in physical training.

All students have the opportunity of taking a systematic course in physical training. The athletic field is situated a short distance from the gymnasium; it has a quarter mile running track with a 220 yard straightaway and is graded and laid out for football, baseball, and track athletics. Here the men may exercise for recreation or train for active competition. There are several tennis courts on the University campus. On the Stillwater river canoeing may be enjoyed, as well as skating and ice hockey in the winter.

The gymnasium affords excellent opportunity for physical training. On the first floor are the main offices, the office of the physical director, the baseball cage, lockers, bathrooms and toilet rooms. The gymnasium proper is located on the second floor. There is a floor space of 6,550 square feet and an overhead running track. This is supplied with an equipment of modern apparatus for heavy and light gymnastic work.

Every student registering for an athletic team must pass the required physical examination.

As the student life is of necessity sedentary the average man is given hygienic and recreative work. Those who have deformities, either of the muscular or skeletal systems, are given the proper corrective work, and those who are sufficiently vigorous may become candidates for the vari-
ous athletic teams. Since the work in this department is required, an effort is made to make the exercises as attractive as possible.

All students exercising at class hours wear the regulation suit which consists of white shirt, white running pants with blue stripe and white rubber sole shoes. From September 20th to June 15th exercises adapted to the whole student body are carried on.

It is the aim of the department of physical training to encourage participation in all forms of wholesome out-door exercise and to arouse a general interest in athletic sport. In this way the benefits will become less and less confined to the few who need them least.

Instead of requiring gymnasium work of students who do not particularly need it, those who are physically fit are encouraged to register for an athletic team, the department of physical training maintaining a reasonable supervision to insure regularity.

All of the physical training is in charge of the University Physician, from whom the students may receive medical attention. For the first consultation no charge is made; for subsequent consultation the regular physician’s fee is charged.

PUBLIC WORSHIP

Short religious services 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 twice each week. The Day of Prayer for Colleges is observed with appropriate exercises.

GENERAL REGULATIONS

The regulations in regard to the selection of studies, standing and grades, absences from recitations and examinations, 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 fourteen hours, to a maximum of twenty-two 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, unless otherwise stated.

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 if any student shall, in one semester, have been absent, without excuse, fifteen times from chapel, or seven times from a subject occurring five times a week, or six times from a subject occurring four times a week, or four times from a three hour subject, or two times from a two hour subject, or once from a one hour subject, he shall be notified by the Secretary. If after such notice he shall have two additional unexcused absences he shall be placed under the censure of the Faculty, and if the absences are from class work he shall also be excluded from examination. Notice of such exclusion shall be given to the student at once by the Secretary. If after notice of exclusion he shall have any more unexcused absences in the same subject he shall be dropped from that class.

Written examinations are held immediately before the beginning of the fall semester for all studies in arrears. A student absent from the University by permission of the Faculty, at the time of these arrearage examinations, may have a special examination at such time as may be arranged with the instructor under whom the arrearage occurred. For such a special examination a fee of two dollars shall be paid to the University. A student who fails to make up an arrearage in a required subject before the study is again given in class is required to attend recitations in that study, or make up the work under a tutor selected by the Faculty.

Each student is given a report of his work shortly after the close of each semester. Parents or guardians may obtain these reports upon application to the Secretary. The passing rank in all subjects is seventy per cent.

**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, and be completed in one year. The methods of work are determined by the instructor, who should be consulted in each case by students desiring to take such a course. 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 all previous work of the department in which the honors are sought. A student may not register for an honor course later than the fourth week of the fall semester. Upon the 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 honors, and the result, together with the instructor’s report, will be laid before the Faculty. Examinations for honors shall be held at such times and places as the committee on honors may appoint. They shall be distinct from any class examinations in the same course, which latter examinations the candidate for honors may or may not take, as he chooses. The honor examination shall be written and, if the committee so desires, also oral. The Professors giving the courses shall submit to the committee papers for the honor examinations not later than one week before the date set for the examinations.

The students in honor courses involving laboratory or drawing-room work may be tested by examination, or thesis, or both, at the discretion of the committee. The note books kept in such work shall be submitted to the committee and may take the place of a thesis in case they show practically the whole work of the course. The Faculty may grant special honors to those students who receive the approval of the committee, but shall not do so if the general work is unsatisfactory. Honors, and their nature, are stated upon the Commencement program and published in the annual catalog.

The fifteen of highest rank in the senior class are authorized to prepare commencement parts; these parts must be submitted to a committee by the close of the spring recess, and from the parts submitted, a certain number are selected by the committee. These parts must be prepared for delivery to the satisfaction of a representative of the Faculty.

DEGREES

Bachelors’ Degrees

The degree of Bachelor of Arts (B. A.) is conferred upon students who have passed the proper entrance requirements and have included in their course one year’s work in either Latin or Greek.

The degree of Bachelor of Science (B. S.) is conferred upon students who complete the Chemical, Agricultural, Civil Engineering, Mechanical Engineering, Electrical Engineering, Mining Engineering, Forestry, or Pharmacy Course; or who have completed a general course with major work in some one department. The diploma indicates which course has been completed.

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

The degree of Bachelor of Laws (LL. B.) is conferred upon students who complete the Law Course.
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In order to receive degrees at Commencement, candidates must have completed by the close of the spring recess, at least seven-eighths of all the work required for graduation, with the exception of arrearage courses repeated in class during the spring semester of the senior year.

A member of the senior class who at the end of the first semester is deficient in any subject in which no regular examination is to be held during the remainder of the year, may be examined not later than the last Friday of the year, at such time and in such manner as the instructor having charge of that study may determine. Except under extraordinary circumstances, no special examination will be allowed to a senior who fails in, or is excluded from, a final examination at the end of the spring semester.

Theses required from candidates for the degree of B. S. must be completed to the satisfaction of the major instructor and deposited in the library, accompanied by the binding fee, not later than twelve o'clock (noon), nine days preceding Commencement. They shall be printed or typewritten, unless the subject matter prevents, on paper of good quality, 8 inches by 10 1/2 inches, with not less than one inch margin on inner edge and half-inch margin on outer edges. They shall be bound in black leather with title on first cover. Drawings accompanying a thesis may be folded and bound with the thesis, or placed in a pocket on the third page of the cover; or, if too many for this, they may be bound separately, in size to suit the drawings.

Candidates for degrees who fail to meet these requirements will not be awarded their degrees, and their names will not appear on the Commencement program. A minimum residence of one year is required for the attainment of any bachelor's degree.

Advanced Degrees

Candidates for the degree of Master of Arts or Master of Science must have received the corresponding bachelor's degree from this institution, or from one granting a fully equivalent degree.

At least one year must elapse between the conferring of the bachelor's and master's degrees.

No work done before the conferring of the bachelor's degree shall be counted toward the master's degree.

The candidate shall devote at least one year to graduate resident study and shall complete work of the equivalent of six credits or fifteen hours per week throughout a college year.

The course of study for each candidate must be approved by the committee on advanced degrees not later than the first week in October.
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registration fee of $5 is charged, and an additional fee of $15 for examinations and diploma is payable upon the completion of the work.

The course of study shall consist of work in one major department or subject in which the candidate has already pursued undergraduate study for at least two years, and work in not more than two minor subjects which bears a distinct relation to the general plan or purpose of his major subject.

At least three-fifths of the work must be done in the major subject. In special cases all the work may be done in one department.

All of the work must be of advanced character and must be tested by examinations which the candidate must pass with distinction.

The candidate shall prepare as a part of his course of study a satisfactory thesis on some topic connected with his major subject which may count for not more than three of the required fifteen hours. Theses must be submitted not later than May 20th. The same regulations regarding the size and style of binding, outlined under the Bachelor's degree, apply here.

For the conditions for the degree of Master of Laws see the statements under the College of Law.

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, upon the presentation of a satisfactory thesis after at least three years of professional work subsequent to graduation. A fee of $10.00 is required, payable upon presentation of the thesis, which must be submitted not later than May 20. Candidates are expected to be present in person to receive their degrees.

STUDENT EXPENSES

Many students go through college with an annual expenditure of little more than $200, exclusive of the expense of clothing, travel, and vacation, 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 College of Law, is made in the following table. For the expenses of students in the College of Law, see the article on that College. It should be noticed that clothing, traveling, 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.
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ANNUAL STUDENT EXPENSES

Tuition, 2 semesters at $15.00 or $20.00 .......... $30.00 or $40.00
Registration fee, 2 semesters at $5.00 ............... 10.00
Incidentals, 2 semesters at $10.00 .................... 20.00
Laboratory fees, (average) about ...................... 10.00
Text-books, about ......................................... 15.00
Board, 36 weeks at $3.00 or $3.50 .......... $108.00 or 126.00
Heat and light for half room, and general care of dormitory .............................................. 30.00

Total ...................................................... $223.60 or $251.60

The tuition charge is $15.00 a semester, or $30.00 a year, and all students are subject to this charge except those in the courses in agriculture, for none of which is any tuition charge made, but incidental and registration fees are the same as in other courses. 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 on page 40.

Students who are not residents of the State of Maine are charged an annual tuition of $40.00.

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

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

A student obliged to leave the University within two weeks after the beginning of the semester may have the foregoing amounts refunded with the exception of the registration fee. A student leaving within the first half of the semester receives a rebate of one-half the incidental expenses, and one-half of the tuition. No other rebate is made.

The cost of text-books will average about $15.00 a year for the course. These may be bought at the college store. 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: chemistry, per semester, about $3.00; bacteriology, per course, $3.00; physics, per course, $2.50 to $4.00; pharmacy, per semester, about $3.50; mineralogy, $2.00; biology, per course, $1.00 to $3.00; civil engineering, $2.00 to $5.00; electrical engineering, per course, $2.50; mechanical engineering, per course, $2.00; shop, per course, $4.00 to $5.00.
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The largest item of expense is board. At the Commons, the university boarding house, the price is about $3.00 a week. Board may be obtained in clubs or private families at prices ranging from $3.00 to $4.00 a week.

The charge for rooms in Oak Hall is eighty-five cents a week for each student, when two occupy a room. This pays for heat and light, and for the lighting and care of the halls, public rooms, and dormitory. 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-$3.00 a week if occupied by two persons.

Women students who do not live at their own homes are required to room and board at the Mt. Vernon House. All the rooms are supplied with the larger articles of furniture. Six of the ten rooms are corner rooms and the rent, including heat and light, is $1.25 a week for each person, with two in a room. The rate for the other rooms, including heat and light, is $1.00 a week for each person, with two in a room. The price of board is $3.50 a week.

Students in Oak Hall supply their own furniture with the exception of a cot bed. Those desiring rooms in Oak Hall or Mt. Vernon House should make early application to the Secretary, as the accommodations are limited. Students are required to furnish three sheets and two pillow cases in addition to the other bedding.

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 bills. Blank forms for bonds will be furnished by the Secretary upon application. Those who keep a sufficient deposit with the Treasurer to cover the bills of one semester 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. This deposit is in addition to the registration fee, and must be paid at the beginning of each semester. No student will be allowed to graduate 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 who 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 College of Law.
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Borrowers are required to give notes with satisfactory endorsement. The loans bear interest at six per cent. per annum, and are due at the rate of $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 the preceding June. 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 semester. 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 three upper classes. 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**, thirty dollars, was endowed by Frank E. Kidder, Ph. D., Denver, Colorado, a graduate of the University, of the class of 1879, and is awarded to a member of the junior class to be selected by the President and the Faculty.

**The Western Alumni Association Scholarship**, tuition for the sophomore year, will be awarded to that student taking a regular course, whose deportment is satisfactory, and who shall make the best progress in all studies during his freshman year.

**The Junior Exhibition Prize**, fifteen dollars, 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.
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The Sophomore Declamation Prize, fifteen dollars, for excellence in elocution, will be awarded to the best speaker in the sophomore class.

The Walter Baleentine Prize, fifteen dollars, the gift of Whitman H. Jordan, Sc. D., Geneva, N. Y., a graduate of the University, of the class of 1875, will be awarded to that member of the junior class who shall excel in biological chemistry.

The Kennebec County Prize, twenty-five dollars, the gift of Hon. William T. Haines, Waterville, a graduate of the University, of 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, ten dollars, the gift of the Hon. Edward F. Danforth, Skowhegan, a graduate of the University, of 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, five dollars, 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 Holt Prizes, the gift of Erastus Eugene Holt, A. M., M. D., LL. D., of Portland, will be given to the three students of the class of 1908 who show the greatest improvement in their rating. The rating will be determined from deductions made from the gymnasium and class records of the students at the beginning and end of their college course by the mathematical formula for the normal earning ability of the body, devised by Dr. Holt.

The Boston Alumni Association Scholarship, thirty dollars, will be awarded to that member of the junior class who shall make the most satisfactory progress in all studies during the junior year, and whose deportment is satisfactory, and who shall need financial assistance.

The New York Alumni Association Scholarship, thirty dollars, will be awarded upon conditions to be determined by the Board of Trustees. In 1906-7 it was awarded to the student who excelled in debate.

The Pittsburg Alumni Association Scholarship, yielding tuition for one student for one year, will be awarded to a member of the junior class in the College of Engineering, to be selected by the President and Professors in that College.

Mr. L. C. Bateman, of the Lewiston Journal, offers a prize of $10.00 for the best essay on Dairy Bacteriology, by any student in any agricultural course.
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Hon. E. B. Winslow, of Portland, offers a cash prize of $10.00 to be awarded for the highest scoring butter, made and exhibited by any person who has taken the dairy course at the University of Maine. The butter is to be shown at the annual meeting of the Maine Dairy Association.

ADMISSION

General Requirements.—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 semester will be accepted in place of a bond. In the College 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.

Admission to Advanced Standing.—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. A rank of 80 per cent. must be attained in order to pass any course in advance. Certificates from approved schools are accepted for the preparatory work; but certificates are not accepted for any part of the college work, unless such work has been done in a college. Graduates of a college of equivalent standing who wish to enter a technical course are admitted to the junior class without examination, provided their course has covered a sufficient amount of work in mathematics, physics, and chemistry.

Special Recommendations.—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 courses should devote especial attention to Latin composition, Roman history, and Latin pronunciation according to the Roman method.

Special Students.—Persons not candidates for a degree, who wish to take special studies, may be permitted to do so, if, upon examination, they give 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 all the entrance examinations. This privilege is intended for students of unusual maturity or previous advancement in particular subjects, not for those who are incompetent to pursue a regular course.

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No examinations are required for admission to the special and extension courses in agriculture.

The terms of admission to the College of Law are stated under the proper heading.

**Admission by Examinations**

Entrance examinations are held at Orono, beginning three days before the opening of the fall semester, and on the Thursday, Friday, and Saturday preceding Commencement. To save expense to candidates, examination papers will be sent to any satisfactory person who will consent to conduct examinations on the days appointed in June. Papers will not be sent at any other time. The questions are to be submitted under the usual restrictions of a written examination, and the answers returned to the University accompanied by the endorsement of the examiner. Applications for such examinations must be made out on blanks to be obtained from the Secretary of the Faculty. Candidates for admission by examination, particularly those examined at Orono in September, should present statements from their Principals regarding their fitness to take the examinations, and to undertake college work. The examinations set by the College Entrance Examination Board will be accepted in place of the above. A candidate who wishes to be examined on part of his work in advance of the year in which he proposes to enter the University may receive credit for such examination, provided he offers not less than one-half of his preparatory work. It is urged that candidates avail themselves of this privilege so far as possible. Examinations on subjects which are to be continued in college should not be taken more than one year in advance.

**Admission by Certificate**

Certificates for admission to the freshman class without examination are accepted only from graduates of schools approved by the New England College Entrance Certificate Board (except in the case of schools outside of New England). They will not be accepted for 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.

Certificates from schools approved by the above-mentioned Board will be accepted at any of the institutions co-operating to maintain it. Any Superintendent or Principal desiring to have a school under his charge placed upon the approved list should apply before April 1st to the Secretary of the Board, Professor Nathaniel F. Davis, 159 Brown St., Providence, R. I.
The University of Maine

ENTRANCE REQUIREMENTS

The requirements for admission are those adopted by the Maine Association of Colleges and Preparatory Schools.

To gain admission to any of the courses leading to the degrees of B. A. or B. S., 28 points must be offered by the candidate, according to the following schedules (to count 2 points, a subject must be pursued for one school year, with five recitation periods, of at least 45 minutes each, a week):

**FOR THE B. A. COURSES**

<table>
<thead>
<tr>
<th>Required Subjects</th>
<th>counts</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Entrance English</td>
<td>6 points</td>
</tr>
<tr>
<td>Latin</td>
<td>8</td>
</tr>
<tr>
<td>Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Plane Geometry</td>
<td>2</td>
</tr>
<tr>
<td>Roman History</td>
<td>1 point</td>
</tr>
</tbody>
</table>

*Optional Subjects (8 Points to be Chosen)*

(If Greek is not taken, French or German must be; and if Greek is taken, Greek History must be taken also. Not less than four points of any foreign language will be accepted, except under special conditions.)

<table>
<thead>
<tr>
<th>Each year of Greek</th>
<th>counts</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot; &quot; French</td>
<td>2</td>
</tr>
<tr>
<td>&quot; &quot; German</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry (including note-book)</td>
<td>2</td>
</tr>
<tr>
<td>Physics (including note-book)</td>
<td>2</td>
</tr>
<tr>
<td>Solid Geometry</td>
<td>1 point</td>
</tr>
<tr>
<td>Greek History</td>
<td>1</td>
</tr>
<tr>
<td>English</td>
<td>1</td>
</tr>
<tr>
<td>American History and Civil Government</td>
<td>1</td>
</tr>
</tbody>
</table>

**FOR THE B. S. COURSES**

(Engineering, Agriculture, Chemistry, Forestry, and all other courses not leading to the B. A. degree)

<table>
<thead>
<tr>
<th>Required Subjects</th>
<th>counts</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Entrance English</td>
<td>6 points</td>
</tr>
<tr>
<td>Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Plane Geometry</td>
<td>2</td>
</tr>
</tbody>
</table>

*Beginning with the fall semester of 1909 29 points will be required of all candidates for admission.*
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Solid Geometry (College of Technology and Forestry Course) counts 1 point

Optional Subjects (16 or 17 Points to be Chosen)
(Of these, two years of one modern language, one year of science, and one year of history must be taken. Not less than four points of any foreign language will be accepted except under special conditions. Candidates entering a B. S. course and offering four years of Latin may complete their entrance credits without a modern language, but must take at least four credits in modern language work in college.)

Each year of French counts 2 points
" " German " 2 "
" " Latin " 2 "
" " Greek " 2 "

Advanced Mathematics (Algebra and Plane and Spherical Trigonometry) " 2 "

* Mechanical Drawing (for technical courses) " 1 point
* Manual Training (for technical courses) " 1 "

Chemistry (including note-book) counts 2 points

Physics (including note-book) " 2 "

Physiography counts 1 point or 2 "

Biology (including note-book) counts 2 "

Botany (including note-book) " 2 "

Zoölogy (including note-book) " 2 "

Physiology " 1 "

Roman History " 1 point

Greek History " 1 "

English History " 1 "

American History and Civil Government " 1 "

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.

* Graduates from high schools giving a full manual training course may receive credit for mechanical drawing, manual training, and free-hand drawing on the basis of one credit for five forty-five minute periods per week for one year in one subject.
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REQUIREMENTS IN DETAIL

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

LANGUAGE

ENGLISH.—Inasmuch as the examination in English is designed quite as much to test the candidate's ability to express himself well in his mother tongue as to test his knowledge of the books prescribed, the student is urgently advised to pursue a thorough course in English composition, in which at least a part of the subjects written upon are from his own observation and experience. He is further urged to cultivate, in all his writing, habits of correctness in spelling, grammar, sentence structure, punctuation, and paragraphing. The examiner will regard mere knowledge of the books as less important than the ability to write good English.

Grammar. The usual school course.

Reading and Practice. The candidate is expected to read intelligently all the books prescribed. He should read them as he reads other books; he is expected to have only a general knowledge of their substance, but to have freshly in mind their most important parts. To test his knowledge and his power of clear and accurate expression, he will be required to write one or two paragraphs on each of several topics set before him on the examination paper. 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 1906, 1907, and 1908, it will be based upon: Shakespeare's Macbeth and The Merchant of Venice; The Sir Roger de Coverly Papers in The Spectator; Irving's Life of Goldsmith; Coleridge's The Ancient Mariner; Scott's Ivanhoe and the Lady of the Lake; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Lowell's The 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 1906, 1907, and 1908, it will be based upon: Shakespeare's Julius Cæsar; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Burke's Speech on Conciliation with America; Macaulay's Essay on Milton and Life of Johnson.

FRENCH.—First Year. Pronunciation; rudiments of grammar, including inflection of the regular and irregular verbs, plural of nouns, inflec-
tion of adjectives, participles, and pronouns, use of personal pronouns, common adverbs, prepositions and conjunctions, word order, and elementary syntax; abundant easy exercises; 100-175 pages of graduated texts; practice in translating into French variations of sentences read; dictation, and reproduction from memory of sentences from text. Super's, or Whitney's Reader is recommended.

Second Year. 250-400 pages of easy modern prose; constant practice in translation of easy variations of the text into French; abstracts of the text; continuation of grammar; dictation.

The following texts are recommended: (1) Perrault's Contes de Fées, or Daudet's Easier Short Stories; (2) Erckmann-Chatrian's Mme. Thérèse or Conscrit de 1813, or About's Roi des Montagnes, or Merimée's Colomba; (3) Labiche's Voyage de M. Perrichon, or Labiche et Martin's La Poudre aux Yeux.

Third Year. 400-600 pages of ordinary difficulty; constant practice in French paraphrases, abstracts, reproductions from memory; study of a grammar of moderate completeness; dictation.

The following texts are recommended: (1) Sandeau's Mlle. de la Seiglière, or Augier et Sandeau's Le Gendre de M. Poirier; (2) Corneille's Le Cid or Horace; (3) Racine's Athalie or Andromaque; (4) Molière's L'Avare or Le Bourgeois Gentilhomme; (5) Hugo's Hernani, or Coppée's Poems.

German.—First Year. Pronunciation: memorizing and frequent repetition of easy colloquial sentences; grammar: article, commonly used nouns, adjectives, pronouns, weak verbs and more used strong verbs, more common prepositions, simpler uses of modal auxiliaries, elementary rules of syntax and word-order; abundant easy exercises in composition; 75-100 pages of graduated texts from a reader; constant practice in translating into German easy variations of text, and reproduction from memory of sentences from text.

Second Year. Continued drill on rudiments of grammar; 150-200 pages of easy stories and plays; continued translation into German of easy variations on matter read and off-hand reproduction, orally and in writing.

The following texts are recommended: (1) Andersen's Märchen or Bilderbuch, or Leander's Träumerieen, about forty pages; (2) Hauff's Das Kalte Herz, or Zschockke's Der Zerbrochene Krug; (3) Hillern's Höher als die Kirche, or Storm's Immensee; (4) a short story from Heyse or Baumbach or Seidl; (5) Benedix' Der Prozess.

Third Year. (See below.) Grammar; less usual strong verbs, use of articles, cases, auxiliaries, tenses and moods (particularly the infinitive and subjunctive), word-order and word-formation; about 400 pages of
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moderately difficult prose and poetry; constant practice in paraphrases, abstracts, and memory reproductions of passages read.

The following texts are recommended: (1) one of Riehl's Noveletten; (2) a part of Freytag's Bilder aus der Deutschen Vergangenheit; (3) a part of Fouqué's Undine, or a part of Schiller's Geisterseher; (4) a short course in Lyrics and Ballads; (5) one classical play by Goethe, or Schiller, or Lessing.

Candidates may present themselves for an examination in French or German based upon the Third Year Courses outlined above, and upon obtaining a rank of 80 per cent. will be allowed to pursue advanced work in college.

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 Aeneid, books I-VI, and the equivalent from Vergil or Ovid of an additional book; 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 less usual 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 less usual words will be furnished. Equivalent readings will be accepted in place of those prescribed.

HISTORY

GREEK HISTORY.—History of Greece, to the capture of Corinth, 146 B. C. Myers, Morey, or Botsford.

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

ENGLISH HISTORY.—A knowledge such as may be obtained from Montgomery, Coman and Kendall, Terry, or Cheyney's History of England.

UNITED STATES HISTORY.—A knowledge such as may be obtained from Fiske, Hart, Montgomery, or McLaughlin's History of the United States.
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Mathematics

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. The preparation in algebra should include, in addition to the mastery of the principal topics in one of the standard elementary text-books, drill with a more advanced text-book or with some standard exercise book. Candidates cannot safely give to algebra less than the two full years called for in the algebra requirements, unless their preparation in arithmetic has been exceptionally thorough. Candidates for the short course in pharmacy will be examined on no topics beyond simple equations of the first degree.

Plane Geometry.—The usual school course. The requirement in plane geometry and solid geometry is covered by the syllabus of plane and solid geometry issued by the Association of Mathematical Teachers in New England. This syllabus is recommended to the attention of teachers. 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.—See statement above under plane geometry. 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. Much attention should be given to numerical exercises and strict accuracy should be insisted upon.

Sciences

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

Phsyical Geography (Physiography).—A satisfactory preparation may be obtained from Appleton’s Physical Geography.

* Physics.—The work usually covered in one year in a good fitting school.

* Biology.—This may consist of a continuous course for one year dealing with the problems of general biology, including the study of the structure, functions, and habits of both plants and animals; a course for

* The work is these sciences must include certified note-books exhibiting the results of experimental work performed by the student. In physics forty exercises are required and in chemistry fifty exercises. These note-books should be presented at the examination.
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one year in botany alone; a course for one year in zoölogy alone; or a course for one half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoölogy, but in such cases it must be treated as an integral part of the subject under consideration.

Elementary Subjects

Descriptive Geography.—The usual school course. Required for short pharmacy course only.

Arithmetic.—The usual school course, including the metric system of weights and measures. Required for the short pharmacy course only.
REQUIREMENTS FOR GRADUATION

The college year is divided equally into a fall semester and a spring semester. Five recitation hours a week of successful work for one semester entitle a student to one credit. The minimum regular work for a semester in the College of Arts and Sciences is fourteen hours a week (exclusive of physical training and military science), leading to two and eight-tenths credits. In the other Colleges the minimum is seventeen hours a week (exclusive of physical training and military science), leading to three and two-fifths credits. Six credits represent the minimum work of a year required for a degree. In making up the quota of studies, laboratory work, and other studies not requiring preparation, count as half time, unless otherwise specified. The hours devoted to such studies are marked with a star (*) or dagger (†) in the detailed description of courses of instruction.

Except in the College of Law, the Short Pharmacy Course, and the School Course in Agriculture, candidates for graduation are required to complete a four-years' course of study by securing from twenty-five to thirty credits, according to the course chosen.
DEPARTMENTS OF INSTRUCTION

Note:—The prefix of a star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour, while a dagger (†) indicates that two hours are required to obtain this credit. This system presupposes that one hour of recitation work requires two hours of preparation.

AGRONOMY

Professor Hurd; Professor McClintock; Professor Waid

Ag 1. Soils.—Lectures and recitations beginning with the classification of and fundamental principles underlying the science of Agriculture; the nature, origin, formation, and classification of soils; the relation of soils to plants, water, heat, gases, etc.; the chemical elements in soils; factors determining soil fertility; soil inoculation; the conservation of soil moisture; the adaptability of crops to different kinds of soils; the objects and benefits of crop rotation; the improvement of unproductive land, the conditions requiring, necessity for, advantages, and methods of drainage; irrigation. Two hours a week. Fall semester.

Ag 2. Soil Physics.—A course taken in connection with Ag 1, consisting of a study of the different soils under field conditions; soil surveying and mapping; the collecting and sampling of soils for laboratory work. This laboratory course is designed to prepare the student to better understand the different methods of treatment of soils and the effect of these methods upon moisture, texture, aeration, fertility, and production. The work comprises the determination of such constants as specific gravity, water-holding capacity, evaporation and capillary power of various types of soils, and the mechanical analysis of soils. † Two hours a week. Fall semester.

Ag 3. Agricultural Engineering and Farm Mechanics.—

(a) Farm Surveying and Drainage. The plotting of farms and the measurement of land; leveling for drains, estimating size of tile required, cost of drain, etc.; the making of roads, with practice in the construction of roads on the college farm.
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(b) Farm Mechanics and Farm Machinery. A study of the simpler laws of mechanics used in operating farm implements; the principles of draft, the handling in the field, the taking apart and the putting together of the different classes of farm implements in possession of the department; the relative merits of wind, gasoline, denatured alcohol, steam, and electricity, as sources of power on the farm.

c) Farm Management. A study of different forms and types of farming; the keeping of farm accounts; the planning of a season's work; the management of men and teams; and estimated cost of different farming operations.

d) Rural Architecture. The planning, designing, location, and construction of farm buildings, including water supply, sewage, etc. *Four hours a week. Fall semester.

Ag 4. Manures and Fertilizers.—A study of the value of stable manure in successful crop production; its chemical composition, preservation, best methods of storing, and time and manner of applying on the land; the source, chemical composition, and comparative value of chemicals used as fertilizers; the working out of fertilizer formulae suited to the needs of different soils and special crops; the importance of lime in agriculture, its physical and chemical effect on different soils, best forms to buy, when to apply, and the amount to use. Practice in home mixing fertilizers and field tests is given students each year on the college farm. *Two hours a week. Spring semester.

Ag 5. Field Crops.—Lectures and recitation work on the history, distribution, uses, chief characteristics, and adaptability of the principal farm crops; the best methods of producing them, including crop rotations, preparation of the land, fertilizing and seeding; a study and treatment of the injurious insects and diseases affecting them, and the harvesting, marketing, and storing of crops. *Two hours a week. Fall semester.

Ag 5a. Laboratory Course in Field Crops.—To be taken with Ag 5. *Two hours a week. Fall semester.

Ag 6. Advanced Agronomy.—Elective, advanced work for those who have completed the required work of the first three years. Lectures and recitations along lines of Experiment Station work; the application of plant breeding to the improvement of farm crops. The student will carry out original investigations along some chosen line under the direction of the instructor. *Two hours a week. Fall semester.
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Ag 6a. Laboratory Advanced Agronomy.—To be taken with Ag 6. 
† Two hours a week. Fall semester.

Ag 7. Advanced Agronomy.—A continuation of course 6. Two hours a week. Spring semester.

Ag 8. General Agriculture.—A history of agriculture from the earliest times, including that of the Jews, Egyptians, and Romans, to the present day; the beginning of British agriculture, and the development of modern agriculture with especial reference to that of England, Germany, France, and other foreign countries; the agriculture of the United States, its influence on social conditions, its relation to the State and Nation; the importance of our leading products, and their effect on the world's commercial life; the agriculture of different sections. Rural life and rural development. Lectures supplemented by illustrative material. Elective and open to all students of the University. One hour a week. Spring semester.

Ag 9. Soil Fertility.—A laboratory course in soil chemistry and soil fertility embracing experiments to determine the relative fertility of different soils. Experiments such as are conducted in the laboratories of the United States Department of Agriculture will be carried out. The preparation and testing of reagents used in this work, a course based on Wiley's Agricultural Analysis, the methods adopted by the Association of Agricultural Chemists, and Hopkins & Pettit's Laboratory Manual for Soil Fertility. Elective for juniors and seniors. † Two hours a week. Spring semester.

Ag 10. Seminary.—A study of current agricultural literature and topics, assigned readings from which abstracts and reports are to be given before the class. Elective. † Two hours a week. Spring semester.

Ag 11. School Gardening.—A course for those taking the teachers' course in agriculture. It consists of planting seed and propagating plants in the greenhouses in preparation for the garden work; and the laying out, planting, and caring for a plot of land arranged as a school garden. * Three hours a week. Spring semester.
ANIMAL INDUSTRY

Professor Campbell

An 1. Animal Breeding.—A study of the market and breed types of dairy cattle, beef cattle and sheep; their history, development, breed characteristics and economic values. The work is given by lectures and text-books. *Two hours a week.* Spring semester.

An 2. Live Stock Judging.—Practice in the use of score cards and judging, handling and management of dairy cattle, beef cattle and sheep. This course is taken in conjunction with An 1. † *Two hours a week.* Spring semester.

An 3. Animal Breeding.—A study of the market and breed types of swine and horses, their history, development, breed characteristics and economic values. Lectures and recitations on the principles of breeding. *Two hours a week.* Fall semester.

An 4. Live Stock Judging.—Practice in the use of score cards, and judging, handling and management of swine and horses. This course is taken in conjunction with An 3. † *Two hours a week.* Fall semester.

An 5. Animal Feeding.—Food requirements of different kinds of animals; composition of foods and the nutrients furnished by them; feeding formulas; calculating rations; valuation of foods; pasturing, soiling and methods of feeding. *Two hours a week.* Fall semester.

An 6. Dairying.—A study of the Babcock test; the determination of acidity and use of lactometer. Given by lectures, text-book and practice in dairy laboratory. † *Two hours a week.* Fall semester.

An 7. Dairying.—Lectures and recitations upon the composition and formation of milk; its production and aeration, pasteurization, separation, manufacture into butter and marketing. *Two hours a week.* Spring semester.

An 8. Laboratory Dairying.—Practice in handling and testing milk and cream, for butter-fat, acidity and solids; ripening cream; making butter and operating dairy machinery. This must be in conjunction with or preceded by An 6 and An 7. † *Seven hours a week for six weeks.* Spring semester.
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An 9. Poultry Breeding.—A study of the types and breeds of poultry, their history, development, breed characteristics and economic values. Two hours a week. Elective to seniors. Fall semester.

An 10. Poultry Management.—A study of the construction of houses; incubation; brooding, feeding chicks; feeding for eggs; preparation for and methods of marketing. Two hours a week. Elective to seniors who have taken An 9. Spring semester.

An 11. Advanced Animal Industry.—A study of the breeds, feeding or dairying. Elective for those who have completed An 1 to An 8 inclusive. Two hours a week. Fall semester.


ART
Professor Huddilston offers certain courses in art which are described in connection with the department of Greek. See page 89.

BIBLIOGRAPHY

Professor Jones

Bb 1. Bibliography.—Origin of the alphabet; development of writing; inscriptions; manuscripts; invention of printing; early printed books; modern bookmaking; bookbinding and the care of books; library processes and aids; public documents; periodicals; libraries, ancient and modern. A lecture course, with collateral reading and reference work. One hour a week. Spring semester.

Three lectures are given on The Library and Its Use; Classification and the Catalog; and Reference Books and Their Use. Required of all freshmen. Fall semester.

BIOLOGICAL AND AGRICULTURAL CHEMISTRY

Professor Merrill

Bc 1. Biological Chemistry.—Lectures and recitations on the composition of the plant; the source and assimilation of plant food; the composition of the animal body and of food materials; the chemical changes involved in the digestion and assimilation of food; the chemistry
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of milk and dairy products; and the chemical processes and methods of investigation by which these subjects are studied. *Five hours a week.* Fall semester.

**Bc 2. Laboratory Biological Chemistry.**—A study of the proteids, fats, and carbohydrates; the digestive enzymes; blood and other tissues of the animal body; bile, milk, and other secretions. A continuation of course 1. *Three hours a week.* Spring semester.

**Bc 3. Agricultural Chemistry.**—A course in the chemistry of soils and fertilizers. It includes the supply, composition, care, and use of farm manures; the origin, composition, preparation, and use of commercial fertilizers; and the general considerations which pertain to soil fertility. *Five hours a week.* Spring semester.

**Geology.**—A study of the earth’s history and development, with especial attention to structural and physiographical geology. *Three hours a week.* Fall semester.

**Biology**

**Professor Drew; Professor Russell; Professor Chrysler; Dr. Riddle**

(Summer Term); Mr. Edwards; Mr. Ridgway

The subjects given below are arranged numerically, but not in the order in which it is best for students to pursue them. It is desirable that all intending to take biology should begin with courses 1 and 2.

**Biology 1. General Biology.**—This course is devoted to the study of the general principles governing the activities of living things, both plants and animals. It is open to all students, and should form the basis for other work in either zoology or botany. It is to be taken in connection with course 2. *Two hours a week.* Fall semester.

**Biology 2. Laboratory Biology.**—To be taken in connection with course 1. *Two hours a week.* Fall semester.

**Biology 3a. Mammalogy.**—The course is devoted to the habits, relationship, and geographical distribution of members of the group. Special attention is given to their adaptations for the lives they lead. Open to all students. *Two hours a week.* Fall semester.

**Biology 3b. Ornithology.**—A course on the habits, relationship, and geographical distribution of birds. Attention is given to the economic
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importance of birds of the State. Open to all students. *Two hours a week.* Spring semester.

Bl 4. Bacteriology.—A lecture course for all students who are unable to take a laboratory course. *One hour a week.* Fall semester.

Bl 5. Zoology (Invertebrate Animals).—Representatives of the invertebrate groups of animals are studied in the laboratory, class-room, and field, where attention is given to their habits, comparative anatomy, and to some extent to their embryology and classification. This course is to be taken in connection with course 6. Courses 1 and 2 are required as a preparation. *Two hours a week.* Spring semester.

Bl 6. Laboratory Zoology.—To be taken in connection with course 5. † *Three hours a week.* Spring semester.

Bl 7. Zoology (Vertebrate Animals).—A continuation of course 5. Types of the Vertebrata are studied and their structures compared. A few weeks are devoted to the embryology of the frog. This course is to be taken in connection with course 8. It must be preceded by courses 1 and 2. *Two hours a week.* Fall semester.

Bl 8. Laboratory Zoology.—To be taken in connection with course 7. † *Four hours a week.* Fall semester.

Bl 9. Physiology.—Attention is given to the physiological activities of the human body, with enough anatomy to render the physiological discussions intelligible, and enough hygiene to serve as a guide for the intelligent care of the body. Open to all students. *Two hours a week.* Fall semester.

Bl 10. Entomology.—Insects are studied with special reference to their habits, life-histories, and structure. Attention is given to their economic importance, and the methods of controlling them. This course is to be taken in connection with course 11. Courses 1 and 2 are required as a preparation. *Two hours a week.* Spring semester.

Bl 11. Laboratory Entomology.—To be taken in connection with course 10. † *Four hours a week.* Spring semester.

Bl 12. Advanced Physiology.—Intended for those who already have an elementary knowledge of general biology and physiology. This course
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is to be taken in connection with course 13 and must be preceded by courses 1 and 2 and by elementary physiology. *Three hours a week.* Spring semester.

**BL 13. Laboratory Physiology.—**To be taken in connection with course 12. It consists of anatomical study and simple experiments. † *Four hours a week.* Spring semester.

**BL 14. Advanced Zoology.—**This course offers an opportunity for special zoological work along lines best suited to the future plans of the student. It may consist of field work, laboratory work, or reading, or a combination of all three. *The time varies, and the work may be continued a number of semesters.* Fall and spring semesters.

**BL 15. Veterinary Science.—**A combined lecture and laboratory course dealing with the anatomy and physiology of our domestic animals. *Two hours a week.* Spring semester of odd years.

**BL 16. Veterinary Science.—**Lectures, demonstrations, and clinics, illustrated by models, natural preparations, and living animals. *Three hours a week.* Spring semester of even years.

**BL 17. 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. Students in agriculture give especial attention to the bacteriology of the dairy. † *Six hours a week.* Spring semester.

**BL 18. Animal Histology.—**A laboratory course in normal animal histology. Starting with perfectly fresh material, the work consists in the preparation, hardening, embedding, cutting, staining, and mounting of the various normal tissues and organs of animals. † *Four hours a week.* Spring semester.

**BL 19. Advanced Bacteriology.—**For students who have taken BL 17. † *Six hours a week.* Spring semester.

**BL 20. Organic Evolution.—**Some of the more important facts on which the theory is based are presented for consideration, and subjects for individual reading and essays are assigned. Open to all students. *One hour a week.* Spring semester of odd years.
Bl 21. General Botany—Phanerogams. The course includes a brief consideration of the fundamental principles of the structure, functions, habits and systematic relations of the seed plants. This course is to be taken in connection with course 22, and should follow courses 1 and 2. Two hours a week. Spring semester.

Bl 22. Laboratory Botany.—To be taken in connection with course 21. † Four hours a week. Spring semester.

Bl 23. General Botany—Cryptogams.—Type forms of algae, fungi, lichens, liverworts, mosses, and ferns are studied in the laboratory and in the field. Attention is given to their structures, life histories, and habitats, as well as their relations to the higher forms of plants. This course must be preceded by courses 1 and 2, and should be preceded by courses 21 and 22. Two hours a week. Fall semester.

Bl 24. Laboratory Botany.—To be taken in connection with course 23. † Four hours a week. Fall semester.

Bl 25. Plant Histology.—The microscopic structure of the higher plants; the cell; the various tissues; the root, stem, leaf, and spore-bearing organs; the adaptations of plants to external conditions considered from the standpoint of structure; killing, staining and mounting of plant tissues. This course is to be taken in connection with course 26, and must be preceded by courses 21 and 22. Two hours a week. Fall semester.

Bl 26. Laboratory Plant Histology.—To be taken in connection with course 25. † Four hours a week. Fall semester.

Bl 27. Plant Physiology.—The plant is considered from the standpoint of its activities; absorption and transport of raw materials; manufacture, transport and storage of food; growth, movement in response to stimuli. This course must be preceded by courses 2 and 22, and may with advantage follow courses 23, 24, 25 and 26. To be taken in connection with course 28. Two hours a week. Spring semester.

Bl 28. Laboratory Plant Physiology.—To be taken in connection with course 27. † Four hours a week. Spring semester.

Bl 29. Agricultural Botany.—This course deals with the plants of the farm and consists of three parts. 1. Seeds.—Structure, functions,
dispersal, and identification. Buying, selling, testing, and identification.
2. Weeds.—Origin and distribution; their benefits, disadvantages, and
methods of eradication; systematic study of Maine weeds. 3. Grasses.
—Origin and distribution of the important grasses; their duration, repro-
duction, and pollination; identification of species. This course must be
taken in connection with course 30. Bl 22 and Bl 23 are prerequisites.
*Two hours a week.* Fall semester.

Bl 30. **Laboratory Agricultural Botany.**—To be taken in connec-
tion with course 29. *† Two hours a week.* Fall semester.

Bl 31. **Plant Pathology.**—Attention is given to the diseases of plants
resulting from the attacks of fungi and those induced by unfavorable
environment. The causes, symptoms, and treatment of the common
diseases of familiar plants are considered. This course must be taken
in connection with course 32. *One hour a week.* Given in the spring
semester of odd years.

Bl 32. **Laboratory Plant Pathology.**—To be taken in connection
with course 31. *† Two hours a week.* Spring semester.

Bl 33. **Elementary Botany.**—Studies in the structure and functions
of the organs of plants. Agents of pollination, and the distribution of
seeds and fruits. Exercises in plant analysis, and the identification of
species in the field. To be taken in connection with course 34. Open to
students who have had neither preparatory botany nor courses 1 and 2.
*One hour a week.* Spring semester.

Bl 34. **Laboratory Elementary Botany.**—Practical studies of seed
plants in the laboratory and in the field. To be taken in connection
with course 33. *† Four hours a week.* Spring semester.

Bl 35. **Pharmaceutical Histology.**—Exercises on the use of the
microscope; the magnification of objects, and microscopic measurements.
A study of cells and tissues, and food products found in them; followed
by exercises in the detection of the common adulterants of familiar drugs.
To be taken in connection with course 36. Open to students who have
taken courses 33 and 34. *One hour a week.* Fall semester.

Bl 36. **Laboratory Pharmaceutical Histology.**—To be taken in
connection with course 35. *† Four hours a week.* Fall semester.
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Bl 37. Advanced Botany.—This course offers an opportunity for special work in botany along lines best suited to the future plans of the student. It may consist of field work, laboratory work, or reading, or a combination of all three. The time varies and the work may be continued a number of terms. Fall and spring semesters.

Bl 38. Forest Botany.—A study of plant life in the forest. Particular attention will be given to the structure, function, and relations of the organs of trees to their environment; the development of tissues of woody plants and their diagnostic value; a systematic account of the trees of the United States, with special reference to those of commercial value. Open to those who have taken Bl 21 and 22; to be taken in connection with Bl 39. Two hours a week. Fall semester.

Bl 39. Forest Botany.—Field and laboratory work. Excursions to identify the trees and shrubs about Orono, including the collection, preparation, and classification of a forest herbarium. Microscopic work in the study of morphological elements of trees, and the making of a bud key. †Four hours a week. Fall semester.

Bl 40. Forest Botany.—A continuation of course 38. To be taken in connection with course 41. Two hours a week. Spring semester.

Bl 41. Forest Botany.—Field and laboratory work. A continuation of course 39. †Four hours a week. Spring semester.

Bl 42. Forest Zoology.—This course deals with the animals that are of economic importance in forests. A portion of the time is given to the study of economic problems with which mammals and birds are concerned and the remainder to the study of the habits, life-histories and methods of control of injurious and beneficial forest insects. Two hours a week. Fall semester.

Summer Term

1. Field Botany.—This course will deal with the kinds, habits, and habitats of plants about the University, including short excursions to several outlying regions for collecting and identifying species in field and forest. Attention will also be given to methods of pollination, modes of migration, association and mutual benefits of flowers and insects, and other factors of environment such as light, heat, soil, water, gravity, and the effects of other plants. There will be a few lectures, some reference reading, and a small amount of laboratory work confined mostly to rainy days.
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2. Laboratory Botany.—A course designed primarily for teachers and dealing with laboratory methods. Exercises will be given in collecting and preserving material of different kinds in different ways. Considerable time will be devoted to life, based on the phenomena of absorption and movement of experimental work on the physics and physiology of plant solutions, transpiration, respiration, carbon assimilation, and reproduction. Attention will also be given to the teaching of botany in secondary schools.

CHEMISTRY

Professor Aubert; Mr. Seymour; Mr. Burgess (Summer Term); Mr. Clayton; Mr. Washburn

Ch 1. General Chemistry.—Recitations and lectures on the general principles of chemistry, illustrated by charts, experiments, etc. To obtain credit for this course, it must be accompanied by course 3, and followed by courses 2 and 4, unless a special excuse is obtained. The text-book is Remsen's Chemistry. Two hours a week. Fall semester.

Ch. 2. General Chemistry.—A continuation of course 1. Three hours a week. Spring semester.

Ch. 3. Laboratory Chemistry.—Practical work to accompany course 1. The text-book is Keller and Smith's Laboratory Experiments. †Two hours a week. Fall semester.

Ch 4. Laboratory Chemistry.—A continuation of course 3, to accompany course 2, with elementary qualitative analysis for those who advance far enough. †Two hours a week. Spring semester.

Ch 5. Advanced Inorganic Chemistry.—Lectures and recitations, illustrated by specimens. The text-book is Jones's Principles of Inorganic Chemistry. Two hours a week. Fall semester. No credit is given unless course 6 is taken, except by special arrangement. Open to students who have taken courses 1, 2, 3, and 4.

Ch 6. Advanced Inorganic Chemistry.—A continuation of course 5. Three hours a week. Spring semester.

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This course must be followed by course 8, and preceded by courses 1, 2, 3, 4, 5 and 6, except for those especially admitted.

Ch 8. Elementary Organic Chemistry.—The unsaturated compounds and the benzene series. A continuation of course 7. Two hours a week. Spring semester.

Ch 12. Chemical Preparations.—The preparation and purification of typical organic and inorganic substances. Open to students who have taken courses 1, 2, 3, 4, 5, 6, 7, and 8. Text-book, Aubert’s Organic and Inorganic Preparations. Five hours a week. Fall semester.

Ch 13. Descriptive Mineralogy.—The text-book is Moses and Parsons’s Elements of Mineralogy. Three hours a week. Spring semester.

Ch 14. Qualitative Analysis.—A laboratory study of the chief elements and their derivatives with a view to a clear understanding of their properties. Supplemented by class room work. The text used is Medicus’s Qualitative Analysis. Not less than 5-8 hours per week, except by special arrangement. Fall semester. Open to students who have taken courses 1, 2, 3, and 4, except for students in the short pharmacy course. It is generally advised that course 5 be taken with this course, and it must be followed by course 15.

Ch 15. Qualitative Analysis.—A continuation of course 14, with the application of analytical methods to the determination of unknown substances of increasing complexity. Elementary analysis by means of the spectroscope is given. Course 6 is usually an accompanying study, except for students in the short pharmacy course. Time, the same as course 14. Spring semester.

Ch 16. Quantitative Analysis.—Gravimetric determinations. The text is Appleton’s Quantitative Chemical Analysis. Not less than 5-8 hours per week, except by special arrangement. For satisfactory preparation, the student should have taken courses 1, 2, 3, 4, 14, and 15; and he should add courses 18 and 19.

Ch 18. Quantitative Analysis.—Analysis of complex alloys, minerals, etc. The text used is Clows and Coleman’s Quantitative Chemical Analysis. Not less than 5-8 hours per week, unless by special arrangement. Fall semester. Open to students who have taken course 16 and its requirements.
Ch 19. **Volumetric Analysis and Assaying**.—Acidimetry, alkalimetry, oxydometry; gold and silver assaying. The text-book used is Schmiff's Essentials of Volumetric Analysis. *Time* and general requirements the same as for course 18.

Ch 20. **Agricultural Analysis**.—The analysis of fodders, fertilizers, milk, and other products. The methods are those recommended by the Association of Official Agricultural Chemists. Except in special cases, the *time* and requirements are the same as for course 18.

Ch 21. **Toxicology and Urinalysis**.—The determination of the more common poisons; the analysis of urine. Text, Aubert's Urinalysis and Toxicology. *Time*, and general requirements, the same as for course 18.

Ch 22. **Thesis Work**.—The thesis must embody the result of original work in analysis or research. †*Fifteen hours a week for eleven weeks.* Spring semester. Open to students who have taken courses 1, 2, 3, 4, 5, 6, 7, 8, 12, 14, 15, 16, 18, 19, 20, 21, 23, 24 and 28.


Ch 24a. **Industrial Chemistry**.—General processes of technical chemistry, and selected topics, including the principal manufactured products of special interest. Lectures and recitations. The text-book is Thorp's Outlines of Industrial Chemistry. *Two hours a week.* Fall semester. Open to students who have completed courses 5, 6, 7, and 8.

Ch 24b. **Industrial Chemistry**.—A continuation of course 24a. *Two hours a week.* Spring semester.

Ch 25a. **Technical Analysis**.—An advanced course in analysis of ores and industrial products. Open to students who have completed courses 16, 18, 19, and their requirements. †*Five hours a week.* Fall semester.

Ch 25b. **Technical Analysis**.—Organic technical products, and advanced mineral analysis. †*Five hours a week.* Spring semester.

Ch 26. **Physical Chemical Methods**.—The determination of molecular weights by the vapor density, boiling point, and freezing point...
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methods; the use of the refractometer and the polariscope. \textit{\textplus \ Five hours a week.} Spring semester.

Ch 28. Dyeing. The practical application of dyes to cotton, wool and silk. \textit{\textplus \ Fifteen hours a week for two weeks.} Spring semester.

Ch 29. Metallurgy.—The chemistry of the metals. Occurrence and methods of extraction. Properties of the metals and their alloys. \textit{Two hours per week.} Fall semester.

Ch 31. Chemical Equations.—Principles governing chemical reaction; their application to equations; advanced equation writing; oxidation and reduction. The text-book is Prescott and Johnson’s Qualitative Chemical Analysis. \textit{Two hours a week.} Spring semester.

Ch 32. Physical Chemistry.—This course is devoted to the study of the general principles of physical chemistry. Lectures and recitations. \textit{Two hours a week.} Spring semester of even years. Open to students who have completed Ch 6.

\textbf{Summer Term}

1. An elementary laboratory course covering the work required for entrance to the university.
2. A laboratory course based upon the work of the freshman year.
3. Advanced laboratory courses adapted to the needs of students registering for them.
4. A lecture course covering the elementary problems of chemistry so far as time permits.

\textbf{CIVICS}

Professor Rogers

\textit{Professor Rogers’s courses will not be given this year}

\textbf{CIVIL ENGINEERING}

Professor Boardman; Professor Brown; Mr. Bean; Mr. Johnstone; Mr. Lord

Ce 1a. Plane Surveying.—A course on the general principles of plane surveying; instruments, their adjustments and uses; the variation of the magnetic needle, and the determination of the true north; direct leveling; land survey computations. The text-book used is Breed and Hosmer’s, The Principles and Practice of Surveying. \textit{Three hours a week. Last twelve weeks.} Fall semester.
Ce 1b. Plane Surveying.—A course similar to 1a, given to students in the mechanical and electrical engineering courses. Two hours a week. Fall semester.

Ce 2a. Field Work in Surveying.—The use of the chain, compass, transit, and level. This course is given before the student has received class room instruction, and is designed to make him familiar with the uses of the instruments, such as running lines, turning angles, reading verniers and rods, etc. Six hours a week. First six weeks. Fall semester.

Ce 2b. Plotting.—This course consists chiefly of map drawing from field notes, by the different methods in common use. Four hours a week. First twelve weeks. Spring semester.

Ce 2c. Field Work in Surveying.—A continuation of course 2a. This course consists of original surveys, problem work, adjustment of instruments, note keeping, etc. The text-book used is Pence and Ketchum’s Surveying Manual. Six hours a week. Last six weeks. Spring semester.

Ce 2d. Field Work in Surveying, and Plotting.—A short course given to students in the mechanical and electrical engineering courses. This course consists of the main principles contained in courses 2a, and 2b. Three hours a week. First nine weeks. Fall semester.

Ce 3a. Railroad Curves.—The theory of railroad curves, switches and turnouts. The text-book used is Allen’s Railroad Curves and Earthwork, together with Field and Office Tables, by the same author. Three hours a week. First twelve weeks. Spring semester.

Ce 3b. Earthwork.—A continuation of course 3a on the methods of setting slope stakes and of calculating earthwork. One hour a week. Fall semester.

Ce 4a. Railroad Field Work.—This course consists of practice in running in railroad curves. A general application of the theories of course 3a. Six hours a week. Last six weeks. Spring semester.

Ce 4b. Railroad Field Work.—The survey of a railroad about three miles in length. The preliminary and location surveys are made, including running in the curves, obtaining the topography, establishing the
grade, and setting the slope stakes. *Six hours a week. First nine weeks. Fall semester.

Ce 4c. Railroad Office Work.—The office work of mapping the notes taken in course 4b, including the calculation of the earthwork. *Six hours a week. Last nine weeks. Fall semester.

Ce 5. Highway Engineering.—The location, construction, and improvement of country roads under different conditions of soil, climate, and traffic. The construction and maintenance of the different pavements on city streets. Lectures and recitations. The text-book used is Judson's City Roads and Pavements. Two hours a week. Fall semester.

Ce 6. Drawing.—This course includes topographical drawing, lettering and tracing; stereotomy, giving the application of the methods of descriptive geometry to the preparation of drawings for arches, retaining walls, abutments, bridge piers, etc. *Six hours a week. Spring semester.

Ce 8. Sanitary Engineering.—Sewerage systems; drainage and sewerage of towns; sewage disposal; sewage treatment; water purification; sanitation and the public health. The text-book used is Follwell's Sewerage. Required of students electing Option 1. Two hours a week. Spring semester.

Ce 9a. Advanced Surveying.—This course consists of lectures on the theory of base line measurement, triangulation, precise leveling, topographical surveying and the use of the plane table, and is a preparation for course 9b. One hour a week. Spring semester.

Ce 9b. Advanced Surveying.—This course consists of the practical application in the field of the principles given in course 9a. The work is given during the two weeks following commencement, and counts as 2-5 credit.

Ce 10. Hydraulics.—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow through orifices, weirs, tubes, pipes and conduits; dynamic pressure of water. The text-book used in this course is Merriman's Treatise on Hydraulics. Three hours a week. Spring semester.

Ce 11. Hydraulic Field Work.—The measurement of the flow of rivers is illustrated by the use of the current meter, and various forms
of floats. Trips are made to the United States Geological Survey gaging station, located on the Penobscot river between Howland and West Enfield, where discharge measurements are made, where, at this time of year, a discharge of from 4,000 to 10,000 cubic feet per second is usually found. The data thus obtained is used together with that obtained from the Survey to plot the rating curve, etc. The measurements taken are reported to the Survey. The charge for this course is $5.00. *Four hours a week. Fall semester.*

Ce 12. STRUCTURES.—A continuation of course 21. The theory of stresses in framed structures, including the plate girder, bridge trusses, and roof trusses; the principles of designing. The object of this course is to train the student in the application of the principles of mechanics to the design of structures. *Three hours a week.* Fall semester.

Ce 13a. STRUCTURES.—A continuation of course 12. This course includes a study of the higher types of structures such as drawbridges, cantilever bridges, suspension bridges, arches, and steel buildings. The text-book used is Merriman and Jacoby's Roofs and Bridges Vol. IV. *Three hours a week.* Spring semester.

Ce 13b. GRAPHIC STATICS.—This course consists of class and drawing room work in the graphical determination of shear and bending moment, and the analysis of bridge and roof trusses by the graphical method. *Two hours a week.* Spring semester.

Ce 14. DESIGNING.—This course takes up the design for some of the common types of steel structures, and the preparation of the shop drawings. *Twelve hours a week.* Fall semester.

Ce 15. DESIGNING.—A continuation of course 14. *Six hours a week.* Spring semester.

Ce 16. HYDRAULIC ENGINEERING.—Rainfall, evaporation, and stream flow. The development and utilization of water power. The development of the modern turbine. This course is given by lectures and recitations, the text-books used being Hoyt and Grover's River Discharge, and Merriman's Hydraulics. Required of students electing Option 1. *Two hours a week.* Fall semester.

Ce 17. HYDRAULIC ENGINEERING.—A continuation of course 16. *Two hours a week.* Spring semester.
Ce 19. Railroad Engineering.—A course discussing the economics of railroad location and construction; estimate of traffic; operating expenses; rolling-stock; track; distance; curvature; grades. The text-book used is Webb's Economics of Railroad Construction. Required of students electing Option 2. Two hours a week. Spring semester.


Ce 21. Structures.—The theory of the simple beam; loads; reactions; vertical shear; shear; bending moment; influence lines. The object of this course is to give the student a drill in finding vertical shear and bending moment under different systems of loadings, and to familiarize him with the use of steel hand books, the moment diagram, different tables, and the slide rule. The text-book used is Grover and Boardman's Notes on Beams and Simple Framed Structures. Two hours a week. Spring semester.

Ce 22. Foundations.—Building stones; manufacture of cement; tests of cement. Mortar; concrete, both plain and reinforced. This is a course of lectures given to students in the mechanical and electrical engineering courses. One hour a week. Fall semester.

Ce 23. Hydraulics.—A short course which includes the main principles given in course 10. Given to students in the mechanical and electrical engineering courses. The text-book used is the same as that used in course 10. Two hours a week. Fall semester.

Ce 24a. Railroad Engineering.—A map reconnaissance for a railroad about ten to fifteen miles in length, where the theories of course 19 are applied. A profile is made, grades established and drainage areas calculated. Culverts, rails, switch points, frogs, and ties are designed, and the layout of a railroad yard made. Required of students electing Option 2. † Four hours a week. Fall semester.

Ce 24b. Railroad Engineering.—A continuation of course 24a. † Two hours a week. Spring semester.
Ce 25. Railroad Engineering.—Lectures and recitations on the methods and materials of railroad construction. Roadbed; track; street crossings; signals and interlocking; track work and maintenance. The design and operation of yards and terminals. The text-book used is Tratman's Railway Track and Track Work. Required of students electing Option 2. Three hours a week. Spring semester.

Ce 26. Cement Testing.—This course consists of laboratory work for the purpose of making the regulation commercial tests upon different samples of cement. A laboratory fee sufficient to cover the cost of materials used is charged. This course is given in conjunction with Me 25, Testing, and is required of students in mechanical engineering in the fall semester and of students in civil engineering in the spring semester. Time variable.

ECONOMICS AND SOCIOLOGY

Professor Sprague

Ec 1. Political Economy.—This course deals with the principles and theory of modern economic thought, production and consumption of wealth, values, commerce and shipping, tariff problems and tariff history, labor problems, trusts and monopolies, and other economic questions. A series of lectures will be given on economic history. Textbook and open discussions with collateral readings. Five hours a week. Fall semester.

Ec 2. Money, Banking, and Public Finance.—This course is given to a study of the general history of money, financial history of America, problems of the single and double standards, banking in Europe and America, crises and depressions, federal and local taxation and other financial interests. Text-book and lectures. Five hours a week. Spring semester.

Ec 3. Sociology.—This course is devoted to anthropological evolution, races and racial characteristics, history of the family, religious organisms, the State and property, and such current social problems as divorce, criminality and prison reform, poverty and its relief, etc. General sociological theory will occupy the last few weeks. The course is open to those who have taken political economy, and to others by special permission. Five hours a week. Fall semester.

Ec 4. Practical Social Reform.—Socialism, communism, and communistic settlements, anarchy, nihilism, European systems for insurance
of wage earners, trade-union relief associations, and other efforts providing against misfortune and old age. Lectures and readings. Open to those who have taken Ec 3, and to others by special permission. *Five hours a week.* Spring semester.

**Ec 5. International Law.**—The principles, history, and prominent "cases" of international law constitute the main part of the work. American diplomacy and important foreign treaties will be given much attention. Text-book, discussions, and lectures. *Three hours a week.* Fall semester.

**Ec 6. Business Law.**—This course aims to acquaint the student with those legal principles and practices which are essential to a business life and with which every active citizen should be familiar; rights, contracts, agency, partnerships and corporations, bailments, guaranty, insurance, etc. Lectures with readings. *Three hours a week.* Spring semester.

**Ec 7. Governments of Europe.**—A brief review of the development and ancient types of government, followed by a detailed comparative study of modern European governments, their politics and national problems. A lecture course with collateral readings. *Two hours a week.* Spring semester.

**Ec 8. American Government.**—The principles and interpretation of the Federal Constitution, history of political parties and critical periods of the country, to be followed by the problems of state and municipal governments. Lectures and readings. *Two hours a week.* Spring semester.

**EDUCATION**

**PROFESSOR DAVIDSON**

**Ed 1. History of Education.**—From the Greeks to Rousseau. Ideals of education at each stage of development; their sources, and modification through the intellectual life and convictions of the people; organization of instruction and the results obtained. *Three hours a week.* Fall semester.

**Ed 2. History of Education.**—Course 1 continued,—the development of education traced down to the present time. *Three hours a week.* Spring semester.

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Ed 3. Organization and Administration.—Growth of present conceptions of education in the United States; organization of education in the different states; also in Germany, France, and England; comparative study of education in three typical states—Massachusetts, New York, and California—and special study of the school system of Maine. Three hours a week. Fall semester.

Ed 4. Organization and Administration Continued.—Problems within the state: town schools and city schools; duties of all officers; certification of teachers and supervision; financial support; defects and excellences of present organization. Problems within the school: powers and duties of the teachers; programs and courses of study; government, and student activities; grading and backward pupils; class and individual instruction. Three hours a week. Spring semester.

Ed 5. Foundations of Education.—Avenues through which knowledge reaches the child and methods of effective approach. Training in analysis, synthesis, and reasoning; inculcation of habits of attention, discrimination, judgment; methods of imparting instruction by topical recitation, question, and exposition; the use of examination, note-book, library, and laboratory methods. Three hours a week. Fall semester.

Ed 6. Special Methodology.—All high school teachers, principals, and superintendents should be specialists in some high school subject. After conference with his major instructor, a course of study, reading, and practice will be mapped out for each student in the methods most applicable in his specialty. Three hours a week. Spring semester. Open to those only who have taken Course 5.

Ed 7. School Hygiene.—Habits for healthful living; hygienic conditions in home and school; ventilation and sanitation; habits of study in school and at home; physical examination and training; nutrition and school luncheons; construction of school buildings. Two hours a week. Spring semester. Open to advanced and graduate students, only.

Ed 8. Child Study.—The physical child. Order of development of the mental powers; adolescence; adaptation of studies to the child. Two hours a week. Spring semester. Open to those only who have taken Course 5.

Summer Term

The following courses are offered for election; the three elected by the greatest number of students will be given:

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1. The History of Education. The development of schools below the grade of the University, beginning with the Renaissance and the Protestant Reformation.

2. Educational Foundations. Among the topics discussed will be the development of mental ability, habit, inhibitions, the will, interest, attention, fatigue, the economy of energy, etc. Readings will be assigned to accompany the lectures.

3. Comparative Studies in School Law. This course is intended primarily for those who expect to serve the schools in an administrative capacity, as principals, superintendents, or supervisors. The solutions which different states offer for problems most vital to the public schools will be compared and discussed. Each member of the class will be expected to provide himself with the school law of some state and to speak for that state on all questions arising for discussion.

4. Modern English Grammar, and Methods in Teaching the same. In every subject except English grammar, a teacher is expected to know more than she teaches. In this course special study will be given to those constructions in prose text that are omitted in the handbooks of grammar. The course will also include a discussion of the different parts of speech and of the syntactic relations, to discover principles of classification where grammars disagree. The functions of prepositions, the relations expressed by infinitives and noun clauses, with their analogues in noun and phrase constructions, will be examined, and also the genesis of noun and adverbial clauses. Advanced works for reference will be provided, but all should bring for purposes of comparison such handbooks of grammar as they possess.

5. A seminar meeting for consultation concerning methods of teaching English in the grades and secondary schools will be held once a week, if desired, but no credit will be given for attendance at such meeting.

**ELECTRICAL ENGINEERING**

Professor Ganong; Mr. Wittig

Ee 1a. Elements of Electrical Engineering.—This course traces the development of electrical engineering from the practical application of laws studied in physics. The work is taken up by lectures, text-book, and problems. *Two hours a week.* Fall semester. Required of juniors in electrical engineering.
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Ee 1b. Elements of Electrical Engineering.—A continuation of course Ee 1a, showing the application of fundamental principles to the construction of electrical machinery and to general engineering problems. *Three hours a week.* Spring semester. Required of juniors in electrical engineering.

Ee 2b. Laboratory Work.—Electrical measurements, and the operation and testing of direct current generators and motors. This course illustrates the practical application of the work given in courses Ee 1a and 1b. *Two hours a week.* Spring semester. Required of juniors in electrical engineering. The charge for this course is $2.00.

Ee 3a. Elements of Alternating Current Circuits.—A study of the conditions which arise in connection with the introduction of variable and alternating electric pressures, and the production of such pressures, measurements and calculations for the same. *Three hours a week.* Fall semester. Required of seniors in electrical engineering.

Ee 3b. Alternating Current Machinery.—A continuation of course Ee 3a, taking up the application of the fundamental elements of alternating currents to the design, construction, and operation of apparatus and machinery; the study of polyphase apparatus in the generation, transmission, distribution, and utilization of power. *Four hours a week for the first nine weeks.* Spring semester. Required of seniors in electrical engineering.

Ee 4a. Electrical Development.—A course on the design, construction, and cost of electro-magnets and clutches, electric heating apparatus, direct current generators and motors, and the general features of the design of alternating current machinery; the study of the insulation problem to meet the requirements of high electric pressures is also taken up, together with the discussion of modern electrical development. *Three hours a week.* Fall semester. Required of seniors in electrical engineering.

Ee 5a. Design of Electrical Machinery.—This course is given in the drawing room, and is the practical application of the work in course Ee 4a. Calculations are made for electro-magnetic devices, and for direct current generators, involving a knowledge of the fundamental electrical principles of design, the principles of mechanical design, cost of materials and cost of labor, and the use of the student's judgment to fit particular circumstances and financial conditions. *Four hours a week.* Fall semester. Required of seniors in electrical engineering.
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Ee 5b. **Design of Direct and Alternating Current Machinery.**—A continuation of course Ee 5a. Drawing room work. *Four hours a week for thirteen weeks.* Spring semester. Required of seniors in electrical engineering.

Ee 6a. **Laboratory Work.**—A continuation of course Ee 2b, taking up the testing of direct current apparatus and machinery, and alternating current measurements; investigation of power plant equipments and electric lighting. *Four hours a week.* Fall semester. Required of seniors in electrical engineering. The charge for this course is $3.00.

Ee 6b. **Laboratory Work.**—A course showing the practical application of the work done in courses Ee 3a and 3b, and continuing the laboratory work of course Ee 6a, including the operating, testing, and experimental work with alternating current instruments, generators, motors, transformers, and rotary converters; and polyphase power measurements. *Four hours a week.* Spring semester. Required of seniors in electrical engineering. The charge for this course is $3.00.

Ee 7b. **Electrical Engineering.**—A course in general engineering applications and practical problems, such as will be met with after the student leaves college, applying all the work and training of the course and the technical ability of the student. *Four hours a week, last nine weeks.* Spring semester. Required of seniors in electrical engineering.

Ee 8b. **Electrical Engineering Practice.**—A course given for the expansion of laboratory work into the construction of laboratory apparatus and development of original ideas of the student; also for testing, repairing, or adjusting commercial electric plants. This course is designed and will be expanded to give the student an opportunity to apply his technical training and ability to actual engineering problems and difficulties. *Sixty-four hours during the senior year.* Required of seniors in electrical engineering.

Ee 9a. **Thesis Work.**—The designing of electrical apparatus or original research work in which the student is particularly interested; and a clear, complete report of what has been accomplished. The organization of the work and the carrying out of the same is left almost entirely to the student, and is a measure of his energy and ability as an engineer. *Fall semester and through the senior year, as arranged for.* Required of seniors in electrical engineering.
Ee 10a. **Electrical Development and Application.**—A course dealing with the fundamental electrical principles and their application to the production, distribution, and utilization of power from the standpoint of a mechanical engineer. *Three hours a week.* Fall semester. Required of seniors in mechanical engineering.

Ee 10b. **Alternating Current Development and Application.**—An elective course for seniors in mechanical engineering, which continues the work taken up in course Ee 10a. The fundamental elements of alternating current measurements and calculations are studied; also the operation of alternating current generators, motors, and polyphase apparatus is treated from a mechanical engineer's point of view. *Two hours a week.* Spring semester.

Ee 11a. **Laboratory Work.**—For mechanical engineers. Electrical measurements, and the operating and testing of direct current generators and motors, showing the practical application of the work taken up in course Ee 10a, and the work is arranged for the particular needs of the mechanical engineer. This course is open to chemical and civil engineering students who have previously elected one of the preliminary electrical courses. This course may be followed by the regular courses Ee 6a and 6b, by those wishing to become familiar with alternating current machinery. *Four hours a week.* Fall semester. Required of seniors in mechanical engineering. The charge for this course is $3.00.

Ee 12b. **Electrical Transmission and Distribution of Power.**—An elective course for seniors in civil engineering, taking up the elements of electrical measurement, the generation, transmission, and utilization of power; covering the electrical feature of water power development. *Two hours a week.* Spring semester.

**ENGLISH**

Professor Estabrooke; *Professor Thompson; Professor Wheeler; Mr. Prince; Mr. Daggett; Mr. Pearson*

Two credits in English are required for graduation. Courses 3 and 4, which are prescribed for freshmen, give 1 1-5 credits. The remaining 4-5 credit is regularly obtained by taking courses 1 and 2; but students especially interested in other courses in English may, upon consultation

* Absent on leave.
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with the instructors, make certain substitutions (see under courses 6, 7, 17, and 18). Course 1 is regularly taken during the freshman year and course 2 during the sophomore year; however, upon sufficient grounds, either course may be postponed for one year.

Eh 1a and 1b. Public Speaking.—The purpose of this course is to give the student a practical knowledge of the fundamental principles of effective public speaking. The first term’s work consists in voice training by means of practice work in classes, reading aloud for interpretation, and the acquirement of ease in pose and gesture. During the second term the training thus acquired will be applied to the delivery of model public orations, and especially to speeches of the student’s own composition. Special attention will be given to the correction of individual faults. Provided their other work is satisfactory, the eight students obtaining the highest grades in this course are chosen to compete in the sophomore prize declamations. During the year the sections will meet once a week. The assignment of sections is made by the instructor in the second week of the semester.

Eh 2a and 2b. English Composition.—This course—to be taken throughout the sophomore year—supplements the work of the freshman year by giving further practice in narrative, expository, and argumentative writing. Monthly themes are required, each containing from 1,000 to 1,200 words. There will be a conference on each theme.

Eh 3. English Composition and Rhetoric.—This course gives both theoretical and practical instruction. The theory is taught by class-room work based on Espenshade's Composition and Rhetoric. The practice is obtained by exercises written in the class-room, and by weekly themes. The themes are criticized in detail by the instructor, and those falling below the standard must be rewritten. In addition to the study of the text-book and the writing and rewriting of themes, certain outside reading from standard authors is required. This course is prescribed for freshmen. Three hours a week. Fall semester.

Eh 4. English Composition and Rhetoric.—Extended study of the forms of discourse—narration, description, exposition, and argumentation; construction of outlines, and practice in the different forms by exercises in the class-room and by weekly themes. The text-books are Cairn's Forms of Discourse and Lewis's Specimens of the Forms of Discourse. This course is prescribed for freshmen. Three hours a week. Spring semester.
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. *Three hours a week.* Given in the spring semester of even years.

Eh 6. **English Composition and Literature.**—One two-page theme a week, and occasional longer themes, in connection with the study of selections from English prose writings. Among the writings studied will be selections from Addison, Swift, Johnson, Goldsmith, and Burke. *Two hours a week.* Fall semester.

Eh 7. **English Composition and Literature.**—A continuation of course 6. Among the writings studied will be selections from Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. *Two hours a week.* Spring semester.

Courses 6 and 7 are open to those who have taken courses 3 and 4; and students especially interested in courses 6 and 7 may, upon consultation with the instructor, substitute them for courses 1 and 2.

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. *Three hours a week.* Fall semester.

Eh 9. **English Literature.**—A continuation of course 8. The authors studied are chiefly Elizabethan dramatists. *Two hours a week.* Spring semester.


Eh 11. **American Literature.**—Study of the most important American authors of the nineteenth century. The text-book is Bronson's American Literature. *Three hours a week.* Spring semester.

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Eh 13. **English Literature.**—A continuation of course 12. In this course selections from English novelists are read critically, in order to determine the characteristic qualities of each. At least one entire work of a selected author is carefully studied. *Two hours a week.* Spring semester.

Eh 14. **American Poets.**—This course is designed to make the student acquainted with the more important American poets, especially with Poe, Bryant, Longfellow, Emerson, and Lowell. The text-book is Bronson's American Literature. *Three hours a week.* Given in the spring semester.

Eh 15. **Victorian Poets.**—Tennyson, Browning, Rossetti, and Arnold. A study of selected poems, together with readings in the works of these poets and of contemporary poets. *Two hours a week.* Fall semester.

Eh 17. **Forensic Writing.**—A course in the principles of written argumentation with a view to spoken debate. Lectures and written work. Open only to those who have taken courses 3 and 4, or an equivalent. *Two hours a week.* Fall semester.

Eh 18. **Oral Debate.**—A course in application of the principles of argumentation to spoken debate. Lectures and class-room work. Open only to those that have taken course 17, or an equivalent. This course is not given unless elected by at least eight students. *Two hours a week.* Spring semester.

Courses 17 and 18 may be substituted for courses 1 and 2.

Eh 19. **Forms of English Poetry.**—The study of the foot, the line, the stanza, the ballad, the sonnet, the ode, the epic, the metrical romance, etc. *Two hours a week.* Fall semester.

Eh 20. **English Romantic Poets.**—A general view of the English Romantic Movement with some attention to the characteristics of the poetry that preceded this movement; a study of selected poems from the writings of Thomson, Collins, Gray, Cowper, and Burns. *Two hours a week.* Fall semester.

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Eh 22. Advanced Public Speaking.—This course will give practical training in the principles of voice production, vocal interpretation of literature, extempore speaking, and the various problems of platform art. Three hours a week. Fall semester. Open to all undergraduates.


Summer Term

1. A course in preparatory English for the benefit of students who have entrance credits to make in this department.

2. English Composition and Rhetoric. The work in this course is similar to that of the fall term of the freshman year in the University. It consists of the study of text-books, discussions of principles and methods, and practice in writing. The written work, which is based largely upon the personal observations and experiences of the student, is discussed before the class in order to give practical illustration of principles and methods. Teachers will obtain from this course a familiarity with the methods of teaching English composition followed in the University, and special effort will be made to meet their needs. The textbook used will be Espenshade’s Composition and Rhetoric.

3. English Prose. A study of the style and substance of selected writings from the works of English prose writers of the Nineteenth Century. Among the writers dealt with will be Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. There will be frequent written reports on the reading assigned, the purpose of the reports being to give practice in writing and to encourage the student toward intelligent interpretation and appreciation of what he reads.

4. English Poetry. A careful and appreciative study of selected poems from the writing of English poets of the early part of the Nineteenth Century. Among the writers dealt with will be Wordsworth, Coleridge, Byron, Shelley, and Keats. An attempt will be made to determine the characteristic merits of the poets studied and to show the relation of these poets to the time in which they lived. Courses 3 and 4 will be given on alternate years. Students in English are requested to indicate their preference for 1907.

An additional course in Shakespeare (a careful reading of a few of the best plays) will be given, if there is sufficient demand.

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FORESTRY
Professor Tower

[Note.—The courses in forest botany and forest zoölogy are listed under biology.]

Fy 1. General Forestry.—The importance and scope of the subject; forest as a soil-former and soil-improver; relation of forest to health of a community; relation to the State; esthetic value; influence on floods; importance of forest in irrigation; geographical distribution of forests. The course is recommended for the student in economics. Open to all students. Two hours a week. Spring semester.

Fy 2. Farm Forestry.—A study of forest conditions; methods of thinning and planting; of determining amount of wood in single trees and for a given area; discussion of log scales. For students in Agriculture, who have taken Fy 1. One hour a week. Fall semester.

Fy 3. Farm Forestry.—Practical work in the woods; measuring trees and determining their contents. † Three hours a week. Fall semester.

Fy 4. Forest Measurements.—A continuation of course 10. Two hours a week. First half of spring semester.

Fy 5. Forest Measurements, Field Work.—A continuation of course 11. † Four hours a week. First half of spring semester.

Fy 6. Silviculture.—A study of the facts which concern forest growth in the relation of the tree to external influences; characteristics of the forest, and of the forest regions of the United States; systems of reproducing forests naturally; thinnings and improvement cuttings. To be taken in connection with course 8. Open to those who have taken courses 2, 3, 4 and 5. Two hours a week. Fall semester.

Fy 7. Silviculture.—A continuation of course 6. To be taken in connection with course 9. Two hours a week. Spring term.

Fy 8. Silviculture, Field Work.—Special studies and practical work in the forest. A part of the time is devoted to the making of a forest map of 1000 to 2000 acres of forest land in the vicinity of the University. A report accompanies the map describing the condition of the tract and type
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of forest growth. Open to students in Forestry who have had Md 1 and 2. †Four hours a week. Fall semester.

Fy 9. Silviculture, Field Work.—A continuation of course 8. Includes products and work in planting. The student is required to make a planting plan for about 100 acres of land and prepare a map of the tract. This course should be preceded by Fy 6 and 7. †Eight hours a week. Last half of spring semester.

Fy 10. Forest Measurements.—The determination of the contents of felled and standing trees and of the whole forest on a tract; methods of measurement in use in the United States; calculation of rate of growth; construction of volume and yield tables. To be taken in connection with course 11. Two hours a week. Fall semester. Open to those who have taken Ms 1, 2, and 4, and courses in forest botany and silviculture.

Fy 11. Forest Measurements, Field Work.—Practice in taking measurements, and office work in computing the results. †Four hours a week. Fall semester.

Fy 12. Lumbering.—The industry considered from an economic standpoint; an account of the methods of lumbering in the different parts of the United States. In connection with this course the student is expected to spend two weeks in a lumber camp and prepare a written report on the operations of lumbering in that locality. Fall semester. One-half credit is allowed for the time spent in the lumber camp and in preparing the report. Open to students taking forestry as a major subject. One hour a week.

Fy 13. Forest Management.—Financial and economic considerations; the normal forest; principles and preparation of working plans. Open to those who have taken courses 6, 7, 8, 9, 10, and 11. Two hours a week, the first half of the spring semester.

Fy 14. Thesis Work.—The preparation of a thesis in forest management. †Ten hours a week. Spring semester.
GERMAN

PROFESSOR CARR; PROFESSOR HUDDILSTON

[Note.—Students who wish to be recommended by this department to teach German will take courses 5a, 5b, 8a, and 8b.]

Gm 1. ELEMENTARY GERMAN.—Harris's German Lessons; Leander's Träumereien; Zschokke's Der zerbrochene Krug; Storm's Immensee; Grimm's Märchen, selected; Benedix's Der Prozess; elementary composition. Five hours a week. Fall semester.

Gm 2. ELEMENTARY GERMAN.—A continuation of course 1. Five hours a week. Spring semester.

Gm 3a. GERMAN PROSE AND POETRY.—Texts selected from the writings of nineteenth's century authors. Easy assigned reading; composition; memorizing of German songs. Three hours a week. Fall semester.

Gm 3b. GERMAN PROSE AND POETRY.—A continuation of course 3a. Two hours a week. Spring semester.

Gm 4a. GERMAN LITERATURE OF THE CLASSIC PERIOD OF THE EIGHTEENTH CENTURY.—Special attention will be devoted to the works and biographies of Lessing, Goethe, and Schiller.Assigned reading and reports. Open to students who have completed courses 5a and 5b. Three hours a week.

Gm 4b. GERMAN LITERATURE OF THE CLASSIC PERIOD OF THE EIGHTEENTH CENTURY.—A continuation of course 4a. Three hours a week.

Gm 5a. GENERAL VIEW OF GERMAN LITERATURE.—Kluge's Deutsche National-Literatur; Thomas's German Anthology; Gudrun and Walther von der Vogelweide (both in modern German); assigned reading and weekly reports. Open to students who have completed courses 3a and 3b. Three hours a week.

Gm 5b. GENERAL VIEW OF GERMAN LITERATURE.—A continuation of course 5a. Three hours a week.

Gm 6a. SCIENTIFIC GERMAN.—Wait's German Scientific Reader. Open to students who have completed courses 1 and 2. Two hours a week. Fall semester.
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Gm 6b. Scientific German.—German scientific texts selected from the Sammlung Göschen. A continuation of course 6a. Two hours a week. Spring semester.

Gm 7a. German Composition and Conversation.—Krüger and Smith's German Conversation Book; Meissner's German Conversation; exercises based upon the New Yorker Staats-Zeitung and Fliegende Blätter. Open to students who have completed courses 1 and 2. Two hours a week. Fall semester.

Gm 7b. German Composition and Conversation.—A continuation of course 7a. Two hours a week. Spring semester.

Gm 8a. Middle High German.—Wright's Middle High German Primer; translation of selections from the Nibelungenlied into modern German. Primarily for graduates, but open to undergraduates who elect course 4a or 5a. Two hours a week. Fall semester.

Gm 8b. Old High German.—Wright's Old High German Primer; Braune's Althochdeutsches Lesebuch. Primarily for graduates, but open to undergraduates who elect course 4b or 5b. Two hours a week. Spring semester.


Summer Term

1. Elementary Course. The work is that done in preparatory schools in one year, and in colleges in one half-year. Text-books: Whitney's Brief German Grammar (H. Holt & Co.); Hempl's Easiest German Reading (Ginn & Co.); and Hauff's Das kalte Herz (D. C. Heath & Co.).

2. Intermediate Course. The work is that done in colleges in one-half of the second year. Text-books: Goethe's Sesenheim (D. C. Heath & Co.); Schiller's Wilhelm Tell (C. E. Merrill & Co.); Heine's Harzreise (Ginn & Co.); and Harris's German Composition (D. C. Heath & Co.).

3. Advanced Course. History of German Literature. For teachers and others who have had at least two years of German. Text-books: Kluge's Deutsche National-Literatur (G. E. Stechert & Co., New York) and Max Müller's German Classics (Oxford, 1886). This course will not be given, unless the demand justifies it.

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GREEK

PROFESSOR HUDDILSTON

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

Gk 2. Homer.—Odyssey, Books VI-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 semester.

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. *Two hours a week.* Fall semester.

Gk 4. Greek Tragedy.—Euripides’s Medea and Sophocles’s Antigone. The reading of several other plays in English translation is required; also, parallel reading on the history of the Greek tragic drama. *Three hours a week.* Spring semester.

Gk 5. Thucydides.—Bks. II-III. Assigned reading in Herodotus, and a comparative study of the three great historians of Greece. *Three hours a week.* Fall semester. Open to students 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. *Two hours a week.* Spring semester. 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. *Two hours a week.* Fall semester. Open to students who have taken courses 3 and 5.

Gk 8. Pindar.—The Olympian and Pythian Odes; supplementary reading on the history of Greek lyric poetry. *Two hours a week.* Spring semester.

Gk 9. Greek Sculpture.—Lectures, illustrated by photographs and lantern slides. This course does not presuppose a knowledge of Greek,
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and is intended to serve as a general introduction to the history of the 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, are emphasized. *Two hours a week.* Given in the fall semester of odd years.

Gk 10. **Greek Sculpture.**—A continuation of course 9, including a study of Greek architecture. *Two hours a week.* Given in the spring semester 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 is open to all students. *Three hours a week.* Given in the fall semester of even years.


Gk 13. **Greek Private Life.**—Lectures, illustrated with lantern slides and photographs. Assigned reading. *Two hours a week.* Given in the fall semester of even years.

Gk 14. **Greek Religion.**—A study of the chief divinities in ancient Greek religion. Lectures and assigned reading. Investigation of special topics by members of the class. *Two hours a week.* Given in the spring semester 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 semester.

Gk 18. **Greek Prose Composition.**—An advanced course consisting of the translation into Greek of narrative and rhetorical passages. *One hour a week.* Fall semester.

Gk 19. **Greek Prose Composition.**—A continuation of course 18. *One hour a week.* Spring semester.

For the accommodation of those students who have not presented Greek for entrance to college the two following courses in elementary Greek are offered.
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Gk 20. ELEMENTARY GREEK.—The declensions, conjugations; Xenophon's Anabasis, Books I-II, and daily writing of Greek based on the text. Five hours a week. Fall semester.

Gk 21. XENOPHON AND HOMER.—Anabasis, Books III-IV; sight reading in Attic prose; selections from Homer's Iliad. Five hours a week. Spring semester.

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 semester 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 semester 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 semester of odd years.

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

HISTORY

PROFESSOR FELLOWS; PROFESSOR COLVIN; DR. STEPHENS (SUMMER TERM)

Hy 1. MEDIEVAL HISTORY.—A general course covering the period from 395 to 1500 A. D. The disintegration of the Roman Empire; ecclesiastical institutions; feudalism; struggle between the papacy and the empire; rise of modern nations. Required of major students in history. Three hours a week. Fall semester. Open to all students.

Hy 2. MODERN HISTORY.—Continuation of course 1 to the present time. A rapid survey of the Reformation; the absolute monarchy in France; the French Revolution; the Napoleonic era; Europe in the nineteenth century. Three hours a week. Spring semester. Open to all students.
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Hy 3. History of England.—From early times to the beginning of the Stuart period. Especial attention is given to social and industrial conditions. *Two hours a week.* Fall semester. Open to all students.

Hy 4. History of England.—Continuation of course 3. From the beginning of the Stuart period to the present. *Two hours a week.* Spring semester. Open to all students.

Hy 5. Modern Continental Europe.—A general course from 1789 to the present time. *Two hours a week.* Fall semester. Open to technical students only.

Hy 6. Modern Continental Europe.—Similar to course 5. *Three hours a week.* Fall semester. Open to technical students only.

Hy 7. History of the United States.—The period from 1783 to the beginning of Jackson's administration. This course will begin with a brief study of Colonial history from 1750. *Three hours a week.* Fall semester. Open to all students.

Hy 8. History of the United States.—A continuation of course 7, through the Period of Reconstruction. *Three hours a week.* Spring semester. Open to all students.

[The following courses are open only to advanced students.]

Hy 9. The Renaissance and the Reformation.—The period from 1300 to 1648 A. D. *Two hours a week.*


Hy 11. History of Modern Continental Europe.—The period from the Peace of Utrecht to the fall of Napoleon I. *Three hours a week.*

Hy 12. History of Modern Continental Europe.—The period since the fall of Napoleon I. *Three hours a week.*

Hy 13. Industrial and Social History of England.—The medieval manor, town, guild, and foreign trade; Black Death and Peasants' Rebellion; breaking up of the medieval system; expansion of England; the industrial revolution; government control in the nineteenth century; and the growth of voluntary association. *Two hours a week.*

Hy 14. Historical Construction and Criticism.—*One hour a week.*
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Summer Term

1. United States History. The period from the beginning of Jackson’s administration to the Civil War.
2. English History. The Tudor period, giving especial attention to the Reformation and social and industrial development.
3. Modern Europe. From 1815 to 1875.

HORTICULTURE

Professor Beckenstrater

Courses one to six inclusive are required of all students in the four years’ course in the College of Agriculture. Courses seven to thirteen are elective and open to students who have had sufficient preparation to do the work.

Ht 1 is pre-requisite to Ht 3. Ht 8 should be preceded by Ag 1 and 2 of the Agronomy department and Ht 11 and 12 by Ht 10.

Ht 1. Principles of Fruit Growing.—A study of the conditions of culture of orchard and small fruits. Lectures and text-books. Two hours a week. Spring semester.

Ht 2. Pomology.—Lectures, assigned readings and laboratory work on the leading groups of fruits. Open to juniors and seniors. Two hours a week. Fall semester.

Ht 3. Laboratory Horticulture.—Practical work in orchard and garden supplementary to Ht 2. †Two hours a week. Fall semester.

Ht 4. Vegetable Gardening.—A study of principles of vegetable gardening accompanied by field practice in the actual growing of plants. Two hours a week. Spring semester.

Ht 5. Handicraft.—Practical work in the greenhouse, gardens and orchard. †Four hours a week. Spring semester.

Ht 6. Insecticides and Fungicides.—A study of the materials used in spraying, their preparation and application and methods of combating insects and fungi. One hour a week. Spring semester.
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Ht 7. **Plants Breeding.**—Studies in heredity and improvement of types. Text-book, lectures, assigned readings, and laboratory work. *Two hours a week.* Fall semester.

Ht 8. **Landscape Gardening.**—Lectures, assigned readings, field work and the mapping and laying out of grounds. *Two hours a week.* Spring semester.

Ht 9. **General Horticulture.**—An introductory course designed to cover the entire field of horticulture in a general way. Intended for students who desire a general knowledge of the subject. Elective and open to all students of the University. *Three hours a week.* Fall semester.

Ht 10. **Greenhouse Construction and Management.**—A study of the different greenhouse crops, forcing plants under glass, drawing plans of greenhouses, studying heating systems and methods of building. Open to juniors and seniors. *Two hours a week.* Fall semester.


Ht 12. **Growing Vegetables Under Glass.**—In this course the student will receive practice in the actual growing of the plants in the greenhouse. Open to seniors. *Time to be arranged.*

Ht 13. **Horticultural Experimentation.**—Original work for those desiring to become teachers or investigators. Open to seniors and graduate students. *Time to be arranged.*

**LATIN**

**Professor Chase**

Lt 1. **Livy and Composition.**—Selections from Livy, History of Rome; composition, with review of Latin syntax. *Four times a week.* Fall semester.

Lt 2. **Cicero and Horace.**—Cicero, De Senectute; Horace, Odes and Epodes; Latin composition. *Four times a week.* Spring semester.
Courses 1 and 2 are required of candidates for the B. A. degree who elect Latin.

Lt 3. Terence and Plautus.—The Andria, Adelphoe, or Phormio of Terence; the Captivi, Trinummmus, or Menaechmi of Plautus; lectures on the development of Roman comedy. *Three times a week.* Fall semester.

Lt 4. Tacitus and Cicero.—The Agricola and Germania of Tacitus; selected letters of Cicero. *Three hours a week.* Spring semester.

Lt 6. Latin Composition.—Practice in writing Latin; study of Latin syntax. *One hour a week.* Fall semester.


Lt 7. Pliny and Tacitus.—Selected letters of Pliny the younger; readings in the Annals of Tacitus; the Roman Empire. *Two hours a week.* Given in the fall semester of even years.

Lt 8. The Roman Elegiac Poets.—Selections from Catullus, Tibullus, Propertius, and Ovid; lectures on the elegiac poets. *Two hours a week.* Given in the spring semester of odd years.

*The following may be counted toward the Master’s degree*

Lt 9. Roman Satire.—Selections from Ennius, Lucilius, Varro, Horace, Persius, Juvenal, Petronius. Open to students who have taken, or are taking, courses 3-4, or 7-8. *Two hours a week.* Given in the fall semester of odd years.

Lt 10. Roman Satire.—A continuation of course 9. *Two hours a week.* Given in the spring semester of even years.

Lt 11. Roman Philosophy.—Lucretius (selections); Cicero (selections from the Academica, De Officiis, Tusculane Disputationes, De Finibus, De Natura Deorum); Seneca (De Providentia, De Vita Beata); lectures on the history and development of ancient philosophy. Open to students who have taken, or are taking, courses 3-4, or 7-8. *Two hours a week.* Given in the fall semester of even years.

Lt 12. Roman Philosophy.—A continuation of course 11. *Two hours a week.* Given in the spring semester of odd years.
Lt 13. Roman Literature.—General introduction to the subject; illustrative class-room readings; a choice of one of six courses of collateral reading of Roman authors. Open to students who have taken courses 1-4. Three hours a week. Given in the fall semester of even years.

Lt 14. Roman Literature.—A continuation of course 13. Three hours a week. Given in the spring semester 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. Open to students who have taken courses 1-4. Two hours a week. Given in the fall semester of odd years.

Lt 16. Roman Rhetoric and Oratory.—A continuation of course 15. Two hours a week. Given in the spring semester of even years.

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 every-day life. Open to students who have taken courses 1-4. One hour a week. Given in the fall semester of odd years.

Lt 19a. The Latin Language.—A discussion of the fundamental principles of linguistic growth and change and of the relationship of Latin to other languages. Latin Phonetics. The development of inflectional forms in Latin. Lectures and recitations. One hour a week. Given in the fall semester of odd years.

Lt 19b. The Latin Language.—A continuation of Lt 19a. One hour a week. Given in the spring semester of even years.

Lt 20. Roman Epigraphy.—The principles of the science, and the interpretation of selected inscriptions. One hour a week. Given in the spring semester of even years.

Lt 21. Rapid Reading of Latin.—Practice in reading without translation. Selections from various authors. Especially adapted for students expecting to teach the language. Open only to students whose major subject is Latin. One hour a week. Spring semester.
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Lt 22. Sanskrit.—An elementary course in the classical language of India, with especial reference to the light it throws upon the history and grammar of the languages of Europe. *Two hours a week.* Given in the fall semester of 1907-8, and occasionally.

Lt 23. Sanskrit.—A continuation of Lt 22, with more attention to the classical literature of India. *Two hours a week.* Given in the spring semester of 1907-8, and occasionally.

**Summer Term**

The Latin Department offers two distinctly different lines of study, intended to meet the needs of three classes of students.

1. For teachers of Latin, and for students wishing to gain entrance credits in Latin, one course is offered in Virgil and one in either Cicero’s Orations or Cæsar’s Gallic War, the choice to be decided largely at the option of the class at organization. In these two courses various questions connected with the teaching of Latin will be discussed, such as questions of spelling and pronunciation, of grammatical forms and inflections, of syntax, prosody, etc.; also questions of bibliography, methods of translation, history, mythology, literature, and the various aids to the elucidation of the authors studied, together with the fundamental principles of the Latin language.

2. For students who desire college credits looking to the B. A. degree. It is the plan of the department to offer a double course that shall cover the work of an entire college term and be equivalent to that required for one college credit, and to vary this course from year to year so that a student in a few summers may complete a fairly comprehensive course of college study in Latin. For the summer of 1907 it is proposed to offer a course in Livy, books XXI-XXII, that will be equivalent to the work offered for the first term of the Freshman year. It is hoped to follow this by the work of the second term of the Freshman year in 1908, and so on in successive years. We call the especial attention of secondary school teachers who have not had the advantage of complete college training in Latin to these courses, as we believe they afford an unusual opportunity to them to increase their equipment.

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Students electing Mathematics as a major subject should expect to take courses 1, 2, 4, 6, 7, 8, 11, 12, 13, 15, 19, 20 and either courses 9 and 10 or Md 5. They are also advised to take Md 3, 4, 7, and 8 and Ps 8.

Ms 1. **Solid Geometry.**—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. The text-book is Bush and Clarke's Solid Geometry. *Five hours a week for ten weeks.* Spring semester. Required of all freshmen in the B. A. courses, and of those in the B. S. courses who did not offer it for admission.

Ms 2. **Algebra.**—A brief review of the theory of exponents, quadratic equations, and the binomial theorem; indeterminate equations; logarithms, including practice in the solution of numerical exercises; undetermined coefficients; partial fractions; exponential and logarithmic series, and the computation of logarithms; permutations and combinations; theory of equations. The text-book is Hawke's Advanced Algebra. *Five hours a week.* Fall semester, first fourteen weeks.

Ms 4. **Plane Trigonometry.**—The text-book is Crockett's Trigonometry. *Five hours a week.* Fall semester, last four weeks; spring semester, first eight weeks. Courses 2, 4, and either 1, 19, or 6a are required of all candidates for the Bachelor's degree.

Ms 6a. **Analytic Geometry.**—A study of the point, line, and circle. Open to students who have taken courses 1, 2 and 4. The text-book is Ashton's Analytic Geometry. *Five hours a week.* Spring semester, last ten weeks.

Ms 6b. **Analytic Geometry.**—A continuation of course 6a. Conic sections; elements of solid analytic geometry. *Five hours a week.* Fall semester, first eight weeks.

Ms 7. **Calculus.**—Differentiation of the elementary forms of algebraic and transcendental functions; successive differentiation; differentials; integration of the elementary forms; integration between limits. Open to students who have taken courses 1, 2, 4, 6a, and 6b. The text-
book is Granville's Differential and Integral Calculus. *Five hours a week.* Fall semester, last ten weeks.


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. Open to students who have taken courses 1, 2, 4, and, preferably, Ps 1 and Ps 5. The text-book is Young's Manual of Astronomy. *Three hours a week.* Spring semester.

Ms 10. **PRACTICAL ASTRONOMY**.—A course arranged to meet the needs of engineering students, and consisting mainly of problems in the conversion of time, the determination of terrestrial latitudes and longitudes, and the establishment of meridian lines. The data for these problems are taken largely from the student's own observations, and the course is intended to emphasize the necessity of careful work in the field, as well as accurate and well arranged computations. The instruments employed are the sextant, artificial horizon, portable chronometer, theodolite, and vertical circle. Open to students who have taken courses 9, 4, and 19. *Two hours of recitations or lectures and one hour of observatory work a week.* Fall semester.

Ms 11. **ADVANCED ALGEBRA**.—Determinants and the solution of higher equations. Open to students who have taken courses 1, 2 and 4. *Three hours a week.* Spring semester.

Ms 12. **ADVANCED INTEGRAL CALCULUS.**—A course based upon Byerly's Integral Calculus. Open to students who have taken courses 6, 7 and 8. *Three hours a week.* Given in the fall semester of odd years.

Ms 13. **ADVANCED INTEGRAL CALCULUS**.—A continuation of course 12. *Two hours a week.* Given in the spring semester of even years.

Ms 15. **DIFFERENTIAL EQUATIONS.**—The text-book is Murray's Differential Equations. Open to students who have taken courses 7 and 8. *Two hours a week.* Given in the spring semester of odd years.

Ms 16. **PRACTICAL ASTRONOMY**.—The theory and use of the sextant, universal instrument, transit, and equatorial. Open to students who
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have taken courses 6, 7, 8, 9, 19, and, preferably, 10. *Three hours a week.* Given in the fall semester of odd years.

Ms 17. **PRACTICAL ASTRONOMY.**—A continuation of course 16. *Three hours a week.* Given in the spring semester of even years.

Ms 19. **SPHERICAL TRIGONOMETRY.**—A continuation of course 4, with additional problems and applications to spherical astronomy. *Two hours a week.* Fall semester.

Ms 20. **SOLID ANALYTIC GEOMETRY.**—A course based upon C. Smith's Solid Geometry. *Three hours a week.* Given in the fall semester of even years.

**SUMMER TERM**

Three or more of the following courses will be given, depending upon the number of candidates indicating their desire to elect them.

1. Plane Trigonometry. The solution of right and oblique plane triangles, and of problems in surveying, together with the use of surveying instruments. No text-book will be required for this course, but those having logarithmic tables should bring them, and also any modern text-book on trigonometry, which will be useful for reference.

2. Solid Geometry. This course is offered especially for the benefit of students who intend to enter college, but who have not been able to complete the requirements in solid geometry. Bush and Clarke's Solid Geometry will probably be used as the text-book, but Philips and Fisher's, Wells,' and other books will be used for reference.

3. College Algebra. The theory of quadratic equations, the binomial theorem, and so much of the regular freshman course in algebra as time will permit. Text-book to be selected at the opening of the term.

4. Analytic Geometry. A brief course covering the elements of this subject.

5. Descriptive Astronomy. Lectures accompanied by work in the observatory.

**MECHANICAL ENGINEERING**

*Professor Jewett; Professor Curtis; Mr. Davee; Mr. Carter*

Me 1a. **WOODWORKING.**—A number of graded exercises in woodworking, designed to give the student familiarity with the tools used in modern woodworking practice, and also teach him to work from dimensioned
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drawings. These exercises lead up to pattern-making. The pattern work consists of making complete patterns and core boxes from drawings. Required of students in mechanical engineering. Charge for materials, $4.00. *Six hours per week. Fall semester.

Me 1b. Woodworking.—A shorter course than Me 1a, arranged for students in electrical engineering. Required. Charge for materials, $4.00. *Four hours per week. Fall semester.

Me 2. Forge Work.—Forging; welding; tool dressing. A set of lathe tools and cold chisels for use in machine work is made by each student. Required of students in mechanical and electrical engineering. The text-book used is Bacon’s Forge Practice. Charge for material, $5.00. Cost of hammer, calipers and scale, about $2.50. *Four hours per week. Spring semester.

Me 3. Kinematical Drawing.—This course supplements Me 4. The drawings are of cams and gear teeth and graphical studies of kinematic problems. Required of students in mechanical engineering. *Three and one-half hours per week. Fall semester.

Me 4. Kinematics.—A study of motion in machine construction and of the elements of machines; links, gears, cams, etc. The text-book is Schwamb and Merrill’s Elements of Mechanism. Required of students in mechanical and electrical engineering. Three hours per week. Spring semester.

Me 5a. Machine Work.—Exercises in chipping and filing; lathe work; exercises on planer, shaper and milling machines; making cut gears, machinists taps, etc. Required of students in mechanical engineering. Charge for materials, $5.00. *Six hours per week. Fall semester.


Me 5c. Machine Work.—A shorter course than Me 5a and 5b, required of students in electrical engineering. Charge for material $5.00. *Four hours per week. Fall semester.

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Me 6. Foundry Work.—Foundry instruction is given in molding, mixing of materials, operation of cupolas, etc. The work is assigned in connection with Me 5, ten per cent of the hours registered for under Me 5 being applied to foundry work.

Me 7. Valve Gears.—The principle steam engine valve motions are studied in order to enable the student to gain a knowledge of the method of designing valve mechanisms. The Zeuner, Bilgram, and other valve-diagrams are made use of in this connection. Practical problems are solved in the drawing-room. Required of students in mechanical engineering. Two hours per week. Spring semester.


Me 11. Thermodynamics.—The fundamental theories relating to the steam engine and other heat engines. Steam calorimeters, injectors, compressors and refrigerating machinery included. Required of students in mechanical and electrical engineering. Three hours per week. Fall semester.

Me 12. Steam Boiler Design. A study of the important points affecting the design of fire-tube and water-tube boilers, including the complete design of a boiler in the drawing room. Required of students in mechanical engineering. Six hours per week. Fall semester.

Me 13. Hydraulic Machinery.—A study of the various forms of machinery used with hydraulic power, either in its development or its
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application. Required of students in mechanical engineering. *Two hours per week.* Spring semester. Ce 23 is a prerequisite for this course.

Me 15a. Mechanical Laboratory.—The calibration of instruments used in engineering testing followed by the more elementary experimental work. Required of Juniors in mechanical engineering. Charge for the course is $2.00. †Two hours per week. Spring semester.

Me 15b. Mechanical Laboratory.—Tests of materials, lubricants, injectors, use of calorimeters, etc. Required of Seniors in mechanical engineering. Charge for the course is $2.00. †Two hours per week. Fall semester.

Me 15c. Mechanical Laboratory.—Tests of steam engines and boilers, gasoline engines, etc. Required of Seniors in mechanical engineering. Charge for the course is $2.00. †Three hours per week. Spring semester.

Me 16. Advanced Steam Engineering.—A continuation of course Me 11, indicating the connection between theory and practice in steam engines, steam turbines, air compressors, refrigerating machines, and gas engines. Considerations affecting the design and efficiency of operation of heat motors. Required of students in mechanical engineering. *Two hours per week.* Spring semester.

Me 17. Steam Engine Design.—A study of problems affecting the design of the steam engine with regard to their bearing on general machine design. A steam engine is partially designed in the drawing room. Required of students in mechanical engineering. †Six hours per week. Spring semester.

Me 18. Advanced Machine Design.—A continuation of Me 8, including the execution of the design of some typical machines. Required of students in mechanical engineering. *Two hours per week.* Fall semester.


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Me 21. SEMINARY.—General discussion of leading articles appearing in current engineering literature. Elective. *One hour per week.* Fall and spring semester.

Me 22. THESIS.—The results of some original investigation or design presented in proper form. The subject should be selected early in the fall term of the senior year. See regulations regarding degrees on page 36.

Me 24. MECHANISM OF MACHINES.—Lectures supplementing the course in Me 4. Required of students in mechanical engineering. *One hour per week.* Fall semester.

Me 25. STRENGTH OF MATERIALS BY TEST.—A course in the mechanical laboratory for students in civil engineering. Charge for the course is $2.00. † *Two hours per week.* Spring semester.

Me 26. MECHANICAL LABORATORY.—A course of experiments in the laboratory especially arranged to meet the needs of the student in electrical engineering. Required. Charge for the course is $2.00. † *Three hours per week.* Fall semester.

MECHANICS AND DRAWING

Professor Weston; Mr. Grover; Mr. Sampson

Md 1. Drawing.—Instruction and practise in technical free-hand drawing and lettering, in the care of drawing instruments and their use in elementary problems involving straight lines and circles. The textbook is Anthony's Mechanical Drawing. † *Four hours a week.* Fall semester.

Md 2. Mechanical Drawing.—The study and construction of geometrical problems, conic sections, and problems in projection, followed by practise in the conventional methods of representing surfaces and materials by means of section lines and water colors. The text-book is Anthony's Mechanical Drawing. † *Four hours a week.* Spring semester.

Md 3. Descriptive Geometry.—Elementary problems; tangents, intersection of planes, cylinders, cones, spheres, etc. The time is divided between the recitation room and drawing room. The text-book is Church's Descriptive Geometry. *Two hours a week.* Fall semester.
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Md 4. DESCRIPTIVE GEOMETRY.—A continuation of course 3. Two hours a week. Spring semester.

Md 5. MECHANICS.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; exercises in finding centre of gravity and moment of inertia; the study of stresses and strains in bodies subject to tension, compression, and shearing; the common theory of beams, including shearing force, bending moment, and elastic curve; torsional stresses and theories of stress in long columns. The text-book is Maurer's Technical Mechanics, supplemented by lectures. Five hours a week. Fall semester.

Md 6. MECHANICS.—A continuation of course 5. Five hours a week. Spring semester.

Md 7. ADVANCED MECHANICS.—General principles of kinematics, statics, and kinetics; the mathematical theory of elasticity; the theory of the potential function, with applications to problems in gravitation, hydro-mechanics, etc. Two hours a week. Fall semester.

Md 8. ADVANCED MECHANICS.—A continuation of course 7. Three hours a week. Spring semester.

Md 9. METHODS OF DRAWING.—A continuation of course 2, including isometric projection, cabinet projection, and linear perspective; followed by instruction and practise in mechanical lettering, the design of titles, of working drawings, and the making of tracings and blue-prints. †Four hours a week. Fall semester.

Md 10. FREE-HAND DRAWING.—Free-hand pencil practise in the drawing of designs involving straight lines and curves, in lettering, in model drawing, and in pictorial perspective. A general course designed for non-engineering students. ‡Four hours a week. Fall semester.
Mt 1. Military, First Year's Course.

(a) Practical:
1—U.S. Infantry Drill Regulations to include the School of the Battalion, Advance and Rear Guards, Outposts, Marches and Ceremonies.
2—Infantry Target Practice.
3—Field Service Regulations.
4—Guard Duty.

(b) Theoretical:
1—U.S. Infantry Drill Regulations to include the School of the Company.
3—Field Service Regulations.
4—Small Arms Firing Regulations.

Required of all students, except as provided on p. 32. Five hours, or the equivalent, a week, counting one credit.

Mt 2. Military, Second Year's Course.

(a) Practical:
The same as course Mt 1 (a).

(b) Theoretical:
1—U.S. Infantry Drill Regulations, School of the Battalion, Advance and Rear Guards, Outposts, Marches and Ceremonies.
2—Records and Official Papers.
3—Small Arms Firing Regulations.

Open to all who have completed course 1. All will be non-commissioned officers. Five hours, or the equivalent, a week, counting one credit.

Mt 3. Military, Third Year's Course.

(a) Practical:
Duties consistent with rank in carrying out (a) in courses 1 and 2.

(b) Theoretical:
Assistant instructors over those taking course Mt 1 (b).

Open to all who have completed course 2. All will be officers, or non-commissioned officers. Five hours, or the equivalent, a week, counting one credit.
Mt 4. Military, Fourth Year’s Course.

(a) Practical:
The same as for course Mt 3 (a).

(b) Theoretical:
Assistant instructors over those taking course Mt 2 (b).
Open to all who have completed course 3. All will be officers. Five hours, or the equivalent, a week, counting one credit.

Organization of the Battalion, October, 1907

Major, Commanding the Battalion, J. Jacobs.
Captain and Adjutant, W. T. Osgood.
Captain and Quartermaster, R. C. Turner.

Company “A,” Captain, J. S. Irish.
First Lieutenant, K. R. Fox.

First Lieutenant, G. E. Springer.
Corporals, R. Smith, F. W. Philbrook, M. F. McCarthy, B. S. Williams, E. N. Maxcy.

Company “C,” Captain, B. I. Collins.
First Lieutenant, E. S. Alton.
Second Lieutenants, G. V. Nauman, H. W. Wright.
First Sergeant, I. F. Hooper.
Sergeants, O. W. Holmes, C. W. Rowe, S. Waite, J. P. Flannagan.
Corporals, G. D. Bearce, A. C. Hammond, B. C. Marble, W. F. Wilson, E. S. Bigney.

Company “D,” Captain, H. L. Farnham.
First Lieutenant, H. Chadwick.
Corporals, D. N. Peaslee, R. E. Patterson, P. S. Strout, R. R. Henderson.
PHARMACY

Professor Jackman

Pm 1. PHARMACEUTICAL CHEMISTRY.—Chemical formulæ; principles, chemical reactions; chemical equations, with special reference to pharmaceutical processes. The text-book is Prescott and Johnson's Qualitative Chemical Analysis. *Five hours a week.* Fall semester.

Pm 2. PHARMACY.—Pharmacopœias, dispensatories, etc.; weights and measures; specific gravity; pharmaceutical uses of heat; pharmaceutical arithmetic and problems; the chemical elements, official salts, their preparations; organic compounds, their official preparations; official drugs, their preparations; animal preparations; extemporaneous pharmacy; the principles of dispensing, etc. The text-book is Caspari's Pharmacy. *Five hours a week.* Fall semester.

Pm 3. LABORATORY PHARMACY.—Official and National Formulary preparations and tests. The operations of manufacturing pharmacy, including the preparation of granular and scale salts, infusions, syrups, tinctures, and other galenicals; official tests of chemicals, drugs, and preparations, for identity, strength and adulteration; drug assaying. The text-books are Caspari's Pharmacy and the U. S. Pharmacopœia. *Twelve hours a week.* Fall semester.

Pm 4. PHARMACOPEIA.—A complete review of the pharmacopeia, 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 semester.

Pm 5. INORGANIC PHARMACOGNOSY.—Nomenclature; practical exercises in the identification of specimens. The text-book is the U. S. Pharmacopœia. *Two hours a week.* Fall semester.

Pm 6. ORGANIC PHARMACOGNOSY.—Nomenclature; habitat, etc.; practical exercises. The text-books are the U. S. Pharmacopœia and Culbreth's Materia Medica. *Four hours a week.* Spring semester.

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. *Three hours a week.* Fall semester.
Pm 9. Pharmacy Readings.—Current pharmacy literature; research and reference readings; abstracting; reports. *Three or five hours a week.* Spring semester.

Pm 10. Laboratory Pharmacy.—A continuation of course 3. *Ten hours a week.* Spring semester.

Pm 11. Prescriptions.—Critical examination of prescriptions from actual files, with reference to inelegance, and to physiological, pharmaceutical, and chemical incompatibility; doses; methods and order of compounding, etc. The text-book is Ruddiman’s Incompatibilities in Prescriptions. *Three hours a week.* Spring semester.

**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). *Three hours a week.* Fall semester.

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. *Three hours a week.* Spring semester.

Pl 3. History of Philosophy.—An outline of Greek and medieval philosophy. *Three hours a week.* Fall semester of odd years.


Pl 5. Comparative Psychology.—The psychology of man and of 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.
Open to juniors and seniors who have taken course I. *Two hours a week.* Spring semester of even years.

Pl 6. **Advanced Psychology**.—Besides special topics and 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. Open to juniors and seniors who have taken course I. *Two hours a week.* A lecture course given in the spring semester of odd years.

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.* Fall or spring semester; the same course is given each term. Open to students taking course I, or who have taken course I, to the limit of the psychological laboratory.

Pl 9. **Problems of Philosophy**.—This course should be preceded by Pl 3 and Pl 4. *Two hours a week.* Fall semester of even years and *three hours a week.* Spring semester of odd years.

Pl 10. **Advanced Laboratory Psychology**.—Experimental and research work. *†Two hours a week.* Fall or spring semester. Open to students who have taken course 8.

Pl 11. **Ethics**.—Theoretical and practical ethics. A lecture course. *Two hours a week.* Fall semester of even years.

**PHYSICS**

Professor Stevens; Mr. Bearce; Mr. Murdock; Mr. Reed

[Note.—For students who are specializing in this department the time indicated for the various laboratory courses may be extended.]

Ps 1. **General Physics**.—Lectures on the dynamics of solids, liquids, and gases; sound and light; experiments before the class; problems. Open to students who have taken Ms 4. *Five hours a week.* Fall semester.

Ps 2. **General Physics**.—A continuation of course 1; heat and electricity. *Three hours a week.* Spring semester.
Ps 3. Qualitative Laboratory Work.—A course in which students who are preparing to become teachers of physics are given the opportunity of performing the various class room experiments which accompany the lectures in Ps 1 and 2. †Four hours a week. Fall semester.

Ps 5. Laboratory Physics.—The subjects usually included in an under-graduate course. Especial attention is given to the reduction of observations, and the tabulation of results. Open to students who have taken either course 1 or course 12. †Four hours a week. Spring semester.

Ps 7. Optics.—Lectures in continuation of course 1, based chiefly upon Preston's Light and Drude's Optics. Open to students who have taken Ms 8. Three hours a week. Spring semester.

Ps 8. Mathematical Physics.—A course in mathematical physics is offered each year. The subject varies. Open to students who have taken Ms 8. Two hours a week. Fall semester.

Ps 9. Mechanics and Heat.—Advanced laboratory work in continuation of course 5. †Six hours a week, or four hours a week. Fall semester.

Ps 10. Optics.—Advanced laboratory work in continuation of course 5. †Six hours a week or four hours a week. Spring semester.

Ps 11. Electrical Measurements.—Advanced laboratory work in continuation of course 5. †Six hours a week. Fall semester.

Ps 12. General Physics.—A course covering the ground of course 1, with more attention to the experimental and historical aspects, and less to the mathematical. The text-book is Aldous's Physics. Five hours a week. Fall semester.


Ps 15. Special Laboratory Course.—A course open to students who have completed courses 9, 10 and 11. A subject is assigned for original
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investigation, or the work of a published research is repeated. †Four hours a week. Fall semester.

Ps 16. Special Laboratory Course.—A continuation of course 15. †Six hours a week. Spring semester.

Ps 18. Electricity and Optics.—Advanced laboratory work in continuation of course 5. †Four hours a week. Fall semester.

Ps 19. Least Squares.—A course of lectures covering the more important topics treated in this subject. Required of juniors in civil engineering and elective for others who have taken Ps 1 and 2 and Ms 8. One hour a week. Fall semester.

Summer Term

1. An elementary laboratory course. This includes the list of experiments adopted by the Maine colleges for admission in physics.
2. Advanced course. Work in any laboratory course offered in the University may be taken by students in the summer term who are properly qualified.
3. A series of experimental lectures on general physics. The grade of the work in this course will be determined by the preparation of the students electing it.

ROMANCE LANGUAGES

Professor Segall; Professor Raggio; Miss Fellows

French

Rm 1. Elementary French.—Fraser and Squair’s Grammar; Syms’ Reader. Five hours a week. Fall semester.

Rm 2. Elementary French.—A continuation of course 1. Fraser and Squair’s Grammar; Bruno, Le Tour de la France; Verne, Une Ville Flottante. Five hours a week. Spring semester.

Rm 3a. French Prose.—Bruce, Grammaire française; Lamartine, Histoire de la Gironde (selections); France, Livre de mon ami. Open to students who have taken courses 1 and 2, or an equivalent. Three hours a week. Fall semester.
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Rm 3b. **French Prose.**—A continuation of course 3a. Bruce, Grammaire française; Sand, La Mare au Diable; Hugo, Quatre-vingt-treize. *Two hours a week.* Spring semester.

Rm 4a. **Advanced French Prose.**—France, Le Crime de Sylvestre Bonnard; composition. Open to students who have taken courses 3a and 3b, or an equivalent. *Three hours a week.* Fall semester.


Rm 5a. **Elementary French Composition and Conversation.** Open to students who have taken courses 1 and 2, or an equivalent. *Two hours a week.* Fall semester.

Rm 5b. **Elementary French Composition and Conversation.**—A continuation of course 5a. *Two hours a week.* Spring semester.

Rm 6a. **French Literature of the Seventeenth Century.**—Lanson, Histoire de la Littérature française. Open to students who have taken courses 4a and 4b. *Two hours a week.* Fall semester.

Rm 6b. **French Literature of the Eighteenth Century.**—A continuation of course 6a. Lanson, Histoire de la Littérature française. *Two hours a week.* Spring semester.

Rm 7a. **Advanced French Composition and Conversation.**—Open to students who have taken courses 5a and 5b. *Two hours a week.*

Rm 7b. **Advanced French Composition and Conversation.**—A continuation of course 7a. *Two hours a week.* Spring semester.

Rm 8a. **French Literature of the Nineteenth Century.**—Lanson, Histoire de la Littérature française. Open to students who have taken courses 4a and 4b. *Two hours a week.* Fall semester.

Rm 8b. **French Literature of the Nineteenth Century.**—A continuation of course 8a. *Two hours a week.* Spring semester.
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**Spanish**

Rm 9a. **Elementary Spanish.**—Hills and Ford, Grammar; Ramsey, Reader. *Three hours a week.* Fall semester.

Rm 9b. **Elementary Spanish.**—A continuation of course 9a. Hills and Ford Grammar; Alarcón, El Capitán Veneno. *Two hours a week.* Spring semester.

Rm 10a. **Modern Spanish Prose.**—Alarcón; Galdós; Valera. Composition. Open to students who have taken courses 9a and 9b. *Two hours a week.* Fall semester.

Rm 10b. **Modern Spanish Prose.**—A continuation of course 10a. *Three hours a week.* Spring semester.

Rm 12a. **Spanish.**—Cervantes, Don Quixote. Open to students who have taken courses 10a and 10b. *Two hours a week.* Fall semester.

Rm 12b. **The Spanish Drama in the Seventeenth Century.**—A continuation of course 12a. *Two hours a week.* Spring semester.

**Italian**

Rm 11a. **Elementary Italian.**—Grandgent’s Grammar; Bowen, First Italian Readings. Open to students who have taken courses 1 and 2. *Three hours a week.* Given in the fall semester of odd years.

Rm 11b. **Elementary Italian.**—A continuation of course 11a. Composition; Goldoni, La Locandiera; Gherardi del Testa, L’oro e l’orpello. *Three hours a week.* Given in the spring semester of even years.

**Summer Term**

1. An elementary course in French for beginners covering the work done in one year in preparatory schools and in one-half year in college. The books used will be: Chardenal’s Complete French Course. For reading and translation, Malot’s Sans Famille. (D. C. Heath & Co.) There will also be some elementary French prose composition based on the text read.

2. A more advanced course for those who have studied French in college or preparatory school. The books to be used are: Fraser and
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Squair's French Grammar (D. C. Heath & Co.); Hugo's La Chute; Augier's Le Gendre de M. Poirier (D. C. Heath & Co.).

3. A lecture course in French literature: (a) History of the French language, (b) Mediaeval French, (c) Great epochs in the literature of France. This course will be given in French.
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 Bachelor of Arts Courses
- The Bachelor of Science Courses
- The Summer Term

**College of Agriculture**
- The Agricultural Course
- The Forestry Course
- The Extension Courses

**College of Technology**
- The Chemical Course
- The Chemical Engineering Course
- 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

**College of Law**

**GENERAL STATEMENT**

The College of Arts and Sciences, the College of Agriculture, the College of Technology, and the College of Pharmacy offer four years' courses leading to the bachelor's degree. They have the following requirements in common for graduation:

1. English, one year, five hours a week, or the equivalent divided between two years.
2. Mathematics, one year, five hours a week.
3. Science (chemistry, physics, or biology), one year, five hours a week, of which time an important part must be occupied with laboratory work.
4. Language (Greek, Latin, German, French), the equivalent of one year, five hours a week. The requirement for Latin is fulfilled by completing Lt 1 and Lt 2; and for Greek by completing Gk 1 and Gk 2. A student beginning German or French must receive at least two credits in the subject to count it toward a degree.
5. Military Science and Tactics, one year, five hours a week.

The science requirement demands a year's work in some one science, and is not fulfilled by fractions of a year's work in two or more sciences. In making up the language requirement, work done in preparation for college may be counted, but two years' preparatory study will be reckoned as one year of college work.

Twenty-five credits (one credit is given for a recitation course that meets five hours a week, or for a laboratory course that meets ten hours a week, for one half year) are required for graduation in the College of Arts and Sciences; thirty credits are required for graduation in the College of Technology, the College of Agriculture, and the College of Pharmacy.

Requirements in detail are printed under each college.
The University of Maine

COLLEGE OF ARTS AND SCIENCES

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.  
President of the University

JAMES STACY STEVENS, M. S., LL. D.  
Dean and Professor of Physics

MERRITT CALDWELL FERNALD, Ph. D., LL. D.  
Professor of Philosophy

ALFRED BELLAMY AUBERT, M. S.  
Professor of Philosophy

* ALLEN ELLINGTON ROGERS, M. A.  
Professor of Civics

LUCIUS HERBERT MERRILL, B. S.  
Professor of Biological and Agricultural Chemistry

JAMES NORRIS HART, C. E., M. S.  
Professor of Mathematics and Astronomy

FREMONT LINCOLN RUSSELL, B. S., V. S.  
Professor of Biology

HORACE MELVYN ESTABROOKE, M. A.  
Professor of English

JOHN HOMER HUDDILSTON, Ph. D.  
Professor of Greek

GILMAN ARTHUR DREW, Ph. D.  
Professor of Biology

RALPH KNEELAND JONES, B. S.  
Librarian

JACOB BERNARD SEGALL, Ph. D.  
Professor of Romance Languages

GEORGE DAVIS CHASE, Ph. D.  
Professor of Latin

CAROLINE COLVIN, Ph. D.  
Professor of History

CHARLES DAVIDSON, Ph. D.  
Professor of Education

JOSEPH WILLIAM CARR, Ph. D.  
Professor of Germanic Languages

ROBERT JAMES SPRAGUE, Ph. D.  
Professor of Economics and Sociology

WALTER STEVENS BROWN  
Professor of Military Science and Tactics

MINTIN ASBURY CHRYSLER, Ph. D.  
Associate Professor of Botany

* GUY ANDREW THOMPSON, M. A.  Assistant Professor of English

GEORGE RUFUS WHEELER, M. A.  
Acting Assistant Professor of English

HARLEY RICHARD WILLARD, M. A.  
Assistant Professor of Mathematics

* Absent on leave.
The University of Maine

ANDREW PAUL RAGGIO, Ph. D.
Assistant Professor of Romance Languages

LINCOLN WARE RIDDLE, Ph. D.
Instructor in Botany (Summer Term)

FRANK FLETCHER STEPHENS, Ph. D.
Instructor in History (Summer Term)

LAURIE LORENZO BURGESS, M. S.
Instructor in Chemistry (Summer Term)

WALTER EVERETT PRINCE, M. A.
Instructor in English

PERCY LORING REYNOLDS, M. D.
Physical Director and University Physician

ELMER EARL MOOTS, B. C. E.
Instructor in Mathematics

WINDSOR PRATT DAGGETT, Ph. B.
Instructor in Public Speaking

HENRY WALTER BEARCE, B. S.
Instructor in Physics

DAYTON JAMES EDWARDS, B. S.
Instructor in Biology

ROBERT EDMOND CLAYTON, B. S.
Instructor in Chemistry

GLADYS ETHEL FELLOWS, B. A.
Instructor in Romance Languages

JAMES SEYMOUR, Ph. G., B. S.
Instructor in Chemistry

HENRY LEWIS SWEET, B. A.
Instructor in Mathematics

WILLIS FLYE WASHBURN, B. S.
Instructor in Chemistry

CHARLES SYLVESTER RIDGWAY, B. S.
Instructor in Biology

LOWELL JACOB REED, B. S.
Instructor in Mathematics and Physics

GEORGE EDWARD PEARSON, M. A.
Instructor in English

CARLETON CHASE MURDOCK, B. A.
Tutor in Physics

GENERAL INFORMATION

The College of Arts and Sciences comprises:
The Bachelor of Arts Courses
The Bachelor of Science Courses
The Summer Term

The College of Arts and Sciences offers a course of liberal training equivalent to that of the standard New England College. It designs particularly to meet the needs of three classes of students:

1. Men and women who desire to complete their studies with a course in general culture.

2. Men and women who desire to enter professional schools which require a collegiate degree. The B. A. degree of the University of Maine is accepted as of the first rank at the graduate departments of our best universities.
3. Men and women who wish to fit themselves for the profession of teachers in secondary schools, or for school superintendencies.

ADMISSION

The requirements for admission are given in full on pages 45-51; they are practically the same as for other New England Colleges and may be met by a four years' preparatory course in a good high school or academy.

FRESHMAN STUDIES

The work of the first year is conditioned somewhat on the subjects offered for admission. Mathematics, which is required of all students, may best be taken in the Freshman year. Other subjects recommended for the Freshman year are English, French or German, chemistry, and drawing.

MAJOR INSTRUCTORS

Each student must select, in some one department, work to be pursued three or four years, five recitations a week. Any one of the following departments may be chosen for major work: biology (including zoology, botany, physiology, and entomology), chemistry, civics, English, German, Greek, history, Latin, mathematics and astronomy, psychology (including education), physics, philosophy, Romance languages (including French, Spanish, and Italian).

In many cases the selection of a major subject need not be made before the beginning of the sophomore year. A student may change his major subject with the consent of the professors in charge of the department which he leaves and the one which he wishes to enter; but no student will be graduated who has not finished all the work required for graduation in some one department, no matter how much work he may have done in other departments. The major subject must include work counting not less than six, nor more than eight credits. In the case of departments in which less work is offered than amounts to six credits, this amount must be made up from such other related departments as the professor under whose direction the major is taken may prescribe. The remainder of the student's work may be selected from any department or departments of the University. This must be done with the advice of the head of the department in which the student has chosen his major subject, that it may bear some useful relation to his other work.

The head of the department in which the student has chosen his major subject becomes his major instructor, and during the remainder of the
The University of Maine

course this instructor acts as chief adviser in all matters relating to the course, and is a representative of the student before the faculty.

THE BACHELOR OF ARTS COURSES

The work in the College of Arts and Sciences leads first to the degree of Bachelor of Arts (B. A.). The course is a 25 point course (see page 36), and is regularly completed in four years; but a bright student of exceptional preparation and application may complete the requirements in three years. Students fitting themselves for professional or technical schools are often encouraged to do this, but prospective teachers are recommended to spend four years on their college course.

THE BACHELOR OF SCIENCE COURSES

These courses are arranged for those who seek a broad general training, based largely upon the study of some one subject as a major, with the remainder of the work selected from the wide range of subjects offered at the University.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year’s prescribed work in residence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science.

No outline of the courses in the College of Arts and Sciences is given in the catalog, but students may have such an outline presented to them by applying to the professor in charge of the department in which they are interested. Groups of studies may be made up which would be desirable for students intending to prepare for teaching, or to enter upon the study of law, medicine, or theology.

GRADUATE COURSES

The candidate for the degree of Master of Arts or Master of Science must have received the corresponding bachelor’s degree from this institution or one granting a fully equivalent degree.

At least one year must elapse between the conferring of the bachelor’s and master’s degree.

No work done before the conferring of the bachelor’s degree can be counted towards the master’s degree.

The candidate shall devote at least one year to graduate resident study and shall complete work of the equivalent of six credits or fifteen hours per week throughout a college year.
The University of Maine

The course of study shall be submitted to and approved by the committee on graduate degrees. The course of study shall consist of work in one major department or subject in which the candidate has already pursued undergraduate study for at least two years, and work in not more than two minor subjects which bears a distinct relation to the general plan or purpose of his major subject.

At least three-fifths of the work must be done in the major subject. All of the work must be of advanced grade and must be tested by examinations which the candidate must pass with distinction. The candidate shall prepare as a part of his course of study a satisfactory thesis on some topic connected with his major subject which may count for not more than three of the required fifteen hours.

THE SUMMER TERM

GENERAL INFORMATION

The summer term of the University of Maine is not a summer school, but so far as is practicable the work is coördinate with that of the remainder of the year. The majority of the courses offered are of college grade and, when completed, entitle the student to full credit on the university books. There are no examinations for admission, and students are permitted to enter any class in which they can satisfactorily carry on the work. Before counting this work toward a collegiate degree, the college entrance conditions must be met.

Three classes of students may be benefited by the work of this term:

1. Teachers in the high schools and grammar schools who wish to fit themselves for more advanced positions. A small expenditure of time and money in the summer vacation may be the means of securing a more desirable position. School superintendents are coming to discriminate in favor of those teachers who advance in their work.

2. College students who may wish to anticipate work in their course, or who may have back work in arrears. A student should be able to make one credit (the equivalent of a five hours' study for eighteen weeks) during the summer term.

3. Courses in physics, chemistry, mathematics, and Latin are offered covering the work of the high school. In this way a student who is slightly deficient at the end of the school year may prepare himself for college. These courses give no credit on the University books. So far as possible the recitations are placed in the forenoon and the special lectures in the evening, leaving the afternoons free for study and recreation.
The University of Maine

Courses of Study

During the summer of 1907 courses were offered in the following subjects: Botany, Chemistry, Education, English, French, German, History, Latin, Mathematics and Physics. These courses are described in connection with the courses offered at the University during the remainder of the year.

Lectures, 1907

President G. E. Fellows, The Problem of the State University
Hon. Payson Smith, State Superintendent of Schools, The Educational Outlook
Professor G. D. Chase, Words
Professor Charles Davidson, The Next Step in Education

Vesper Services

A brief religious service is conducted each Sunday afternoon at 4.00 p. m. in the Art Building. This consists of a song service and a brief address.

Library

Throughout the summer term the University library of 27,000 volumes and the reading room, containing about three hundred periodicals and the Maine daily papers, will be open from 9.00 a. m. to 12 m., and from 2.00 to 5.00 p. m. daily, except Saturday afternoon and Sunday.

The library privileges ordinarily accorded to University students, including the home use of books, will be extended to students in the summer courses.

Laboratories, Museums, and Observatory

The laboratories belonging to the departments of physics, chemistry, and botany will be available for use of the students. In the physical laboratory there is ample provision for carrying on the various courses from the preparatory work to that of the graduate student in the University. All necessary apparatus is supplied to the student without charge.

In the chemical laboratory a small charge is made to cover the cost of the articles used. The department is well equipped with modern apparatus.

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The University of Maine

The botanical laboratory is in charge of the professor of biology. The student is furnished with microscope, specimens, and preparations for advanced work.

The museum is illustrative of the rocks and fauna of Maine, and will be open at stated periods for the use of the students.

The observatory contains an eight-inch telescope, vertical circle, and other instruments of precision. The work of the observatory will be explained by Professor Hart in an evening lecture.

Expenses

Tuition for the term of five weeks, covering all charges for instruction in any number of courses that the student may elect, use of library and laboratories, except a small additional fee for those taking laboratory chemistry:

For residents of Maine, $12.00.
For residents of other states, $18.00.
Board and room in any of the University buildings, including light, and necessary furniture, $20.00 for the term, payable in advance.

Recreation

Most of the class work is held during the forenoon, leaving the afternoon and evening free for study and recreation.

On the campus are several excellent tennis courts. The neighboring country affords many attractive excursions, on foot, by bicycle, carriage, or electric cars. Maine’s famous seaside resort, Bar Harbor, is but one and one-half hours distant by rail, while Mount Kineo and Moosehead Lake are at only a slightly greater distance and easily accessible.

Within easy riding or wheeling distance are Lakes Pushaw and Chemo, as well as several attractive mountains.

In General

Prospective students are invited to consult Dean Stevens, who is in charge of the Summer session, or any of the other instructors, for further details regarding any of the courses, or upon any subject relating to the work. It is the wish of the authorities to offer such courses as will best appeal to the teachers of Maine and others who desire to avail themselves of these privileges.

If there should be a considerable demand for other studies than those named, arrangements will be made to provide for them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn. The list of instructors and the courses outlined in this catalog were for the summer of 1907. Unimportant changes are likely to be made for the coming term.
DEPARTMENT OF EDUCATION

Advisory Courses

For students who are preparing to teach in Secondary Schools the following courses have been arranged for (1) teachers of English, (2) teachers of Latin, (3) teachers of Modern Languages, (4) teachers of Mathematics, (5) teachers of Physical Sciences, (6) teachers of Natural Sciences, (7) teachers of Agriculture. These courses are advisory only, and election must be made subject to the requirements of the time schedule, but it is believed that they will be of assistance in determining the relative importance of subjects aside from the major subject chosen.

Freshmen are advised to take the required subjects with the following additions: for (1), any language, preferably Latin, and Hy 1 and 2; for (2), Lt 1 and 2 and one science; for (3), the modern language not taken in preparation and Lt 1 and 2; for (4), Gm 1 and 2 and Ch 1, 2, 3, and 4; for (5), and (7), a modern language and Ch 1, 2, 3, and 4; for (6), a modern language and Bl 1, 2, 21, 22.

For upper classmen, the following electives are advised:

For Teachers of English:

Sophomore Year
First semester: Eh 2a, 6, 8; Gm 3a or 1; Rm 3a or 1; Ch 1, 3; Hy 3; Ed 1.
Second semester: Eh 2b, 7, 9; Gm 3b or 2; Rm 3b or 2; Ch 2, 4; Hy 4; Ed 2.

Junior Year
First semester: Eh 10, 12, 15, 17; Ed 3; Ec 1; Pl 1.
Second semester: Eh 11, 13, 14; Ed 4; Ec 2; Bl 9.

Senior Year
First semester: Eh 19, 20, 22; Ed 5; Hy 7; Pl 3.
Second semester: Eh 21, 23, English course on secondary requirements: Ed 6, 8; Hy 8; Pl 4.

For Teachers of Latin:

Sophomore Year
First semester: Lt 3, 6; Eh 2a, 6; second year of modern language; Hy 1; Ed 1; mathematics or science.
Second semester: Lt 4, 6; Eh 2b, 7; second year of modern language; Hy 2; Ed 2; mathematics or science.

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The University of Maine

**JUNIOR YEAR**

First semester: Lt 7, 9, 6, 11; third year of modern language; Ec 1; Ed 3.
Second semester: Lt 8, 10, 6, 12; third year of modern language; Ec 2; Ed 4.

**SENIOR YEAR**

First semester: Lt 15, 19a, 18, 13; Eh 8; third year of modern language; Pl 1; Ed 5.
Second semester: Lt 16, 19b, 20, 21, 14, review of secondary texts; Pl 2; Ed 6, 8.

**For Teachers of Modern Languages:**

**SOPHOMORE YEAR**

First semester: Gm 3a; Rm 3a; Lt 3; Eh 2a, 6; Hy 1; mathematics or science.
Second semester: Gm 3b; Rm 3b; Lt 4; Eh 2b, 7; Hy 2; mathematics or science.

**JUNIOR YEAR**

First semester: Gm 4a, 5a, 6a; Rm 4a, 5a; Ed 1; Ec 3.
Second semester: Gm 4b, 5b, 6b; Rm 4b, 5b; Ed 2, Ec 8.

**SENIOR YEAR**

First semester: Gm 7a, 8a; Rm 6a, 7a, Spanish or Italian; Pl 1 or Hy 5; Ed 5.
Second semester: Gm 7b, 8b; Rm 6b, 7b, Spanish or Italian; Pl 2 or Hy 6; Ed 8.

**For Teachers of Mathematics:**

**SOPHOMORE YEAR**

First semester: Ms 6b, 7; Eh 2a; Gm 3a; Ps 1; Md 1; Ed 1.
Second semester: Ms 8; Eh 2b; Gm 3b; Ps 2, 5; Md 2; Ed 2.

**JUNIOR YEAR**

First semester: Ms 19, 20 or 12; Rm 1 or 3a; Ps 8, or Ps 19; Ed 3; Pl 1.
Second semester: Ms 11, 9, 15 or 13; Rm 2 or 3b; Ed 4; Pl 2.

**SENIOR YEAR**

First semester: Ms 10, 12 or 20; Ec 1; Hy 7; Ed 5.
Second semester: Ms 13 or 15, review of secondary mathematics with methods; Ps 9; Hy 8.

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The University of Maine

For Teachers of Physical Sciences:

**SOPHOMORE YEAR**

First semester: Ch 5, 14; Gm 3a or Rm 3a; Ms 6b, 7; Eh 2a; Ed 1.
Second semester: Ch 6, 15; Ms 8; Gm 3b or Rm 3b; Eh 2b; Ed 2.

**JUNIOR YEAR**

First semester: Ch 7; Ps 1; Bl 1, 2; Eh 8; Ed 3.
Second semester: Ch 8; Ps 2, 5; Bl 21, 22; Eh 9; Ed 3.

**SENIOR YEAR**

First semester: Ch 16; Ps 8, 9, 14; Ec 7; Hy 7; Ed 5.
Second semester: Ch 18; Ps 10 or 7; Ps 3, method for secondary schools; Ec 8; Hy 8; Ed 8.

For Teachers of Natural Sciences:

**SOPHOMORE YEAR**

First semester: Bl 3a, 9, 23, 24; Ch 1, 3; Eh 2a; Gm 4a, or Rm 4a; Ed 1; Md 1.
Second semester: Bl 3b, 5, 6; Ch 2, 4; Eh 2b; Gm 4b or Rm 4b; Ed 2; Md 2.

**JUNIOR YEAR**

First semester: Bl 25, 26, 7, 8; Eh 6; Ps 12; Ed 3.
Second semester: Bl 10 and 11, 27 and 28, 18, or 37; Eh 7; Ps 5; Ed 4.

**SENIOR YEAR**

First semester: Elective biology; Ec 3; Ed 5; Eh 8; Hy 7.
Second semester: Bl 12, 13, elective biology; Ec 6; Eh 9; Ed 8; Hy 8.

Note.—As a preparation for the course in Latin, students should have taken four years of Latin and either three years of Greek or two of one modern language and one of another in the secondary school. If the student desires to prepare to teach both Greek and Latin, he should take three years of Greek and four of Latin in college. If he would omit Greek, he should take one year of the modern language in which he had most credits when he entered and two of another.
The University of Maine

COLLEGE OF AGRICULTURE

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.  President of the University
WILLIAM DANIEL HURD, B. S.  Dean and Professor of Agronomy
ALFRED BELLAMY AUBERT, M. S.  Professor of Chemistry
LUCIUS HERBERT MERRILL, B. S.  Professor of Biological and Agricultural Chemistry
JAMES NORRIS HART, C. E., M. S.  Professor of Mathematics and Astronomy
FREMONT LINCOLN RUSSELL, B. S., V. S.  Professor of Biology
HORACE MELVYN ESTABROOKE, M. A.  Professor of English
GILMAN ARTHUR DREW, Ph. D.  Professor of Biology
RALPH KNEELAND JONES, B. S.  Librarian
WALTER STEVENS BROWN  Professor of Military Science and Tactics
JACOB BERNARD SEGALL, Ph. D.  Professor of Romance Languages
GORDON EDWIN TOWER, B. S., M. F.  Professor of Forestry
JOSEPH WILLIAM CARR, Ph. D.  Professor of Germanic Languages
CHARLES PARTRIDGE WESTON, C. E., M. A.  Professor of Mechanics and Drawing
PERCY ANDERSON CAMPBELL, M. S. A.  Professor of Animal Industry
MINTIN ASBURY CHRYSLER, Ph. D.  Associate Professor of Botany
GEORGE RUFUS WHEELER, M. A.  Acting Assistant Professor of English
ANDREW PAUL RAGGIO, Ph. D.  Assistant Professor of Romance Languages
HERMAN BECKENSTRATER, M. S.  Assistant Professor of Horticulture
JAMES EDGAR McCLINTOCK, B. S.  In Charge of Agricultural Extension Work
HARLEY RICHARD WILLARD, M. A.  Assistant Professor of Mathematics
EARNEST DAVID WAID, B. Sc.  Assistant Professor of Agronomy

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GENERAL INFORMATION

The College of Agriculture comprises the departments of Agronomy, Animal Industry, Horticulture, Extension Work, and Forestry, and includes courses in nearly all of the natural sciences, agricultural chemistry, biological chemistry, veterinary science, and bacteriology. The aim of the College is to prepare young men to become farmers, teachers of agriculture and sciences in schools and colleges, investigators of agricultural subjects in the United States Department of Agriculture, experiment station workers, foresters, and practical men. Tuition is free except in the course in forestry.

The courses of instruction are organized as follows:

I. The Regular Courses:

The four years general course in Agronomy, Animal Industry, and Horticulture
The four years course for teachers in Elementary Agriculture
The special courses in Agronomy, Animal Industry, and Horticulture
The course in Forestry
The two years School Course in Agriculture
The short winter courses in Agronomy, Animal Industry, and Horticulture
The two weeks course in Poultry Management
Farmers' week
The University of Maine

2. **The Extension Courses:**
   - The Correspondence courses
   - The Lecture courses
   - The Demonstration work

**The College Courses**

The college courses are designed for those who wish to follow agriculture, animal and dairy husbandry, or horticulture, as a business, or who purpose to become teachers or investigators in related sciences. The instruction is arranged with a view to emphasize fundamental principles and to give the student the largest amount of technical knowledge consistent therewith. To this end the theoretical instruction is associated with practical work and observation on the farm, in the orchard and garden, and in the various laboratories of the University; but time is not consumed in purely manual operations.

Certain studies are fundamental to all work in agricultural lines and these are included among the subjects required in the four-year courses. After these fundamental subjects are completed, opportunity for election is given.

The following course, embracing 30 credits, is the required course for four years agricultural students. It is recommended that the subjects be taken in the order stated in the course. The elective subjects are selected with the advice of the major instructor.

A course for those who intend to become teachers of elementary agriculture in the public schools is to be found following the regular course.

**The Four Years' Course in Agronomy, Animal Industry, and Horticulture**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag 1, Soils</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Ag 2, Lab. Soils</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Bl 1 &amp; 2, Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Ch 1 &amp; 3, Chemistry</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Eh 1 &amp; 3, English</td>
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<td>4</td>
</tr>
<tr>
<td>Md 1, Drawing</td>
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<td>Mt 1, Military</td>
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<table>
<thead>
<tr>
<th>Subject</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
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<tbody>
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<td>An 1, Animal Breeding</td>
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<tr>
<td>An 2, Stock Judging</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Bl 21 &amp; 22, Botany</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Ch 2 &amp; 4, Chemistry</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Eh 1 &amp; 4, English</td>
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<td>4</td>
</tr>
<tr>
<td>Mt 1, Military</td>
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</table>

**Total:** 17½

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### SOPHOMORE YEAR

#### Fall Semester

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<th>Subject</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ag 3, Agr. Engineering † 4</td>
<td>2</td>
</tr>
<tr>
<td>An 3, Animal Breeding</td>
<td>2</td>
</tr>
<tr>
<td>An 4, Stock Judging † 2</td>
<td>1</td>
</tr>
<tr>
<td>Ch 14, Qualitative Analysis † 8</td>
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<tr>
<td>Eh 2, English</td>
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<tr>
<td>Modern Language</td>
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<td>Ms 2, Algebra</td>
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<td>Bl 9, Physiology</td>
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<td>Pt, Physical Training</td>
<td>%</td>
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<td><strong>Total</strong></td>
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### Spring Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag 4, Fertilizers</td>
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</tr>
<tr>
<td>Bl 15, Veterinary Science</td>
<td>2</td>
</tr>
<tr>
<td>Eh 2, English</td>
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</tr>
<tr>
<td>Ht 1, Principles of Fruit Growing</td>
<td></td>
</tr>
<tr>
<td>Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Ms 1, Solid Geometry</td>
<td>(</td>
</tr>
<tr>
<td>Ms 4, Plane Trigonometry</td>
<td>5</td>
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<tr>
<td>Eh 2, English</td>
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<td>Modern Language</td>
<td>2</td>
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<td><strong>Total</strong></td>
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### JUNIOR YEAR

<table>
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<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Ag 5, Farm Crops</td>
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</tr>
<tr>
<td>Ag 5a, Lab. Crops † 2</td>
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</tr>
<tr>
<td>An 5, Animal Feeding</td>
<td>2</td>
</tr>
<tr>
<td>An 6, Dairying † 2</td>
<td>1</td>
</tr>
<tr>
<td>Ht 2, Pomology</td>
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</tr>
<tr>
<td>Ht 3, Lab. Pomology † 2</td>
<td>1</td>
</tr>
<tr>
<td>Bc 1, Biological Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Bl 29, Farm Botany</td>
<td>2</td>
</tr>
<tr>
<td>BL 30, Lab. Farm Botany † 2</td>
<td>1</td>
</tr>
<tr>
<td>Pt, Physical Training</td>
<td>%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>20 %</td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Agronomy, Animal Industry or Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>Fy 2, Farm Forestry</td>
<td>1</td>
</tr>
<tr>
<td>Fy 3, Field Farm Forestry † 3</td>
<td>1</td>
</tr>
<tr>
<td>Thesis (at least)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Agronomy, Animal Industry or Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>Bl 16, Veterinary Science</td>
<td>2</td>
</tr>
<tr>
<td>Thesis (at least)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

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The University of Maine

The following subjects are included in a major in Agriculture:

- Ag 1 to 6, Agronomy .................................................. 2 credits
- An 1 to 8 Inclusive, Animal Industry ...................... 2 5-10 credits
- Ht 1 to 6, Inclusive, Horticulture ......................... 2 credits
- Bl 15 and 16, Veterinary Science .......................... 4-5 credit
- Be 1 and 2, Biological Chemistry ................. 1 3-5 credits
- Fy 1, 2, and 3, Forestry ........................................ 4-5 credit
- Be 3, Agricultural Chemistry ................................ 1 credit
- Bl 17, Bacteriology .................................................. 2 credits

Total ........................................................................ 12 7-10 credits

At graduation the student receives the degree of Bachelor of Science. Upon completion of graduate work as prescribed by the University, and the presentation of a satisfactory thesis, he receives the degree of Master of Science.

COURSE IN AGRICULTURE FOR THOSE WHO INTEND TO BECOME TEACHERS OF THIS SUBJECT IN THE PUBLIC SCHOOLS

This course is offered in response to a call for teachers capable of teaching elementary agriculture in schools and academies. In order to receive a degree 150 hours, or 30 credits, must be received. The following course as laid down covers 146 hours. The remaining 6 hours have been purposely left open for elective work in order that the student may receive as liberal a training in cultural studies, as is consistent with the amount of technical work necessary. It is recommended that the electives be taken from the departments of biology, history, economics, chemistry, physics, or English.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 1, Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>Ch 2, Lab. Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>Eh 1, Public Speaking</td>
<td>1</td>
</tr>
<tr>
<td>Eh 3, English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Md 1, Drawing, *6</td>
<td>2</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Ms 2, Algebra</td>
<td>5</td>
</tr>
<tr>
<td>Mt 1, Military ‡ 5</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td>19½</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 2, Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 4, Lab. Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>Eh 1, Public Speaking</td>
<td>1</td>
</tr>
<tr>
<td>Eh 4, English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Md 2, Drawing *6</td>
<td>2</td>
</tr>
<tr>
<td>Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Ms 1, Solid Geometry †</td>
<td>5</td>
</tr>
<tr>
<td>Ms 4, Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>Mt 1, Military ‡ 5</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td>19½</td>
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</tbody>
</table>

130
### SOPHOMORE YEAR

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag 1, Soils</td>
<td>2</td>
</tr>
<tr>
<td>Ag 2, Soil Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Bl 1, General Biology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 2, Lab. Biology</td>
<td>1</td>
</tr>
<tr>
<td>Ch 14, Qualitative analysis</td>
<td>8.4</td>
</tr>
<tr>
<td>Ed 1, History of Education</td>
<td>3</td>
</tr>
<tr>
<td>Eh 2a, English</td>
<td>1</td>
</tr>
<tr>
<td>Me 1, Wood shop work</td>
<td>2</td>
</tr>
<tr>
<td>Pt, Physical Training</td>
<td>?</td>
</tr>
<tr>
<td>Elective work</td>
<td>?</td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag 4, Fertilizers</td>
<td>2</td>
</tr>
<tr>
<td>An 1, Animal Breeding</td>
<td>2</td>
</tr>
<tr>
<td>An 2, Stock Judging</td>
<td>1</td>
</tr>
<tr>
<td>Bl 21, General Botany</td>
<td>2</td>
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<tr>
<td>Bl 22, Lab. Botany</td>
<td>2</td>
</tr>
<tr>
<td>Ed 2, History of Education</td>
<td>2</td>
</tr>
<tr>
<td>Ch 15, Qualitative Analysis</td>
<td>8.4</td>
</tr>
<tr>
<td>Ht 1, Principles of Fruit Growing</td>
<td>2</td>
</tr>
<tr>
<td>Me 2, Forge Work</td>
<td>2</td>
</tr>
<tr>
<td>Pt, Physical Training</td>
<td>?</td>
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</tbody>
</table>

### JUNIOR YEAR

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag 3, Agr. Engineering</td>
<td>2</td>
</tr>
<tr>
<td>An 3, Animal Breeding</td>
<td>2</td>
</tr>
<tr>
<td>An 4, Stock Judging</td>
<td>1</td>
</tr>
<tr>
<td>Bl 9, Physiology</td>
<td>2</td>
</tr>
<tr>
<td>Ed 5, General Methodology</td>
<td>3</td>
</tr>
<tr>
<td>Ht 2, Pomology</td>
<td>2</td>
</tr>
<tr>
<td>Ht 3, Lab. Pomology</td>
<td>1</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Pt, Physical Training</td>
<td>?</td>
</tr>
<tr>
<td>Elective work</td>
<td>?</td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag 5, Farm Crops</td>
<td>2</td>
</tr>
<tr>
<td>Ag 5a, Lab. Crops</td>
<td>1</td>
</tr>
<tr>
<td>Ht 4, Vegetable Gardening</td>
<td>2</td>
</tr>
<tr>
<td>Ht 5, Handicraft</td>
<td>2</td>
</tr>
<tr>
<td>Ed 8, Child Study</td>
<td>3</td>
</tr>
<tr>
<td>Bl 15, Veterinary Science</td>
<td>2</td>
</tr>
<tr>
<td>Ag 11, School Gardening</td>
<td>1</td>
</tr>
<tr>
<td>Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Pt, Physical Training</td>
<td>?</td>
</tr>
<tr>
<td>Elective work</td>
<td>?</td>
</tr>
</tbody>
</table>

### SENIOR YEAR

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>An 5, Animal Breeding</td>
<td>2</td>
</tr>
<tr>
<td>Bc 1, Biological Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Bl 29, Agricultural Botany</td>
<td>2</td>
</tr>
<tr>
<td>Bl 30, Lab. Agl. Botany</td>
<td>1</td>
</tr>
<tr>
<td>Ht 8, Landscape Gardening</td>
<td>2</td>
</tr>
<tr>
<td>Ps 12, Physics</td>
<td>5</td>
</tr>
<tr>
<td>Elective work</td>
<td>?</td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>An 7, Dairying</td>
<td>2</td>
</tr>
<tr>
<td>An 8, Lab. Dairying</td>
<td>1</td>
</tr>
<tr>
<td>Bc 3, Agricultural Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Bl 10, Entomology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 11, Lab. Entomology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 16, Veterinary Science</td>
<td>2</td>
</tr>
<tr>
<td>Bl 17, Bacteriology</td>
<td>2</td>
</tr>
<tr>
<td>Fy 1, General Forestry</td>
<td>2</td>
</tr>
<tr>
<td>Ps 5, Lab. Physics</td>
<td>2</td>
</tr>
</tbody>
</table>

† Two hours laboratory time counts one hour.

* Three hours laboratory time counts one hour.
The University of Maine

The Special Courses in Agronomy, Animal Industry, and Horticulture

The Special Courses are designed for young men and women who cannot well spend four years in preparing themselves to become farmers, but who wish to secure special training in certain agricultural subjects. No fixed schedule of studies is prescribed, but students may elect along the line of horticulture, or dairying, or general farm crops and farm management.

For admission to this course applicants must be at least eighteen years of age, and must have a good common school education. No formal entrance examinations are required, but students will be admitted, upon recommendation of the Dean of the College after the professor in charge of the work elected shall have satisfied himself of the fitness of each candidate to take the studies desired.

The annual expenses for courses of one year or more are the same as those of students in the four years courses. Tuition is free except in the course in forestry.

The Two Years School Course in Agriculture

This is a course designed to train young men and women who wish to become practical farmers, farm superintendents, dairymen, or gardeners, but who cannot devote time to high school or college training.

The same equipment is used and the same instructors give the work as in the four years University course, but the work is of a more elementary nature. All the classes are separate and distinct from the four year classes, and in no case will college credit be allowed for work done in the school course.

There are no entrance examinations required of those who desire to enter the school course. Students over fifteen years of age who are prepared for advanced grammar or high school work are eligible for registration. No tuition is charged in this course but the same registration and incidental fees of fifteen dollars a term, or thirty dollars a year, are charged school course students in agriculture as are charged all others attending the University.

The practical side of the work in this course is strongly emphasized, and since students are excepted to be able to do work and handle men when they have finished, those taking this course are required to spend the summer vacation between the first and second years in work at the college, for which reasonable wages will be paid, or on some farm approved by the faculty.
The University of Maine

On completion of the course a certificate is awarded those who have satisfactorily done the work.

The following is a schedule of the work given:

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td>Farm Crops and Farm Mechanics</td>
<td>Farm Crops and Farm Mechanics</td>
</tr>
<tr>
<td>Animal Industry</td>
<td>Animal Industry and Dairy Work</td>
</tr>
<tr>
<td>Orchard and Garden</td>
<td>Garden and Orchard</td>
</tr>
<tr>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>Business Arithmetic and Farm Accounts</td>
<td>Veterinary Science</td>
</tr>
<tr>
<td>Carpentry</td>
<td>Forge Work</td>
</tr>
<tr>
<td>Practical Dairying and Stock Management</td>
<td>Practical Dairying and Stock Management</td>
</tr>
<tr>
<td>Farm Practice and Laboratory Work</td>
<td>Farm Practice and Laboratory Work</td>
</tr>
<tr>
<td>Orchard and Garden Practice and Laboratory Work</td>
<td>Orchard and Garden Practice and Laboratory Work</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Farm Crops and Farm Mechanics</td>
<td>Farm Crops and Farm Mechanics</td>
</tr>
<tr>
<td>Animal Industry</td>
<td>Animal Industry</td>
</tr>
<tr>
<td>Orchard and Garden</td>
<td>Insects</td>
</tr>
<tr>
<td>Farm Chemistry</td>
<td>Forestry</td>
</tr>
<tr>
<td>Farm Botany</td>
<td>Veterinary Science</td>
</tr>
<tr>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>Farm Practice and Laboratory Work</td>
<td></td>
</tr>
<tr>
<td>Practical Dairying and Stock Management</td>
<td>Practical Dairying and Stock Management</td>
</tr>
<tr>
<td>Orchard and Garden Practice and Laboratory Work</td>
<td>Farm Practice and Laboratory Work</td>
</tr>
<tr>
<td>Orchard and Garden Practice and Laboratory Work</td>
<td>Orchard and Garden Practice and Laboratory Work</td>
</tr>
</tbody>
</table>

**The Winter Courses**

The winter courses in Dairying and General Agriculture are designed for practical farmers who wish some training which will enable them to be better farmers, fruit growers, dairymen, or poultrymen, but who cannot leave the farm at other seasons of the year. These courses also help fit men to be managers of farms, creameries, or cheese factories.
Special emphasis is given to dairying and if the course is pursued two terms and satisfactory work is performed for two seasons in a butter or cheese factory, the student will be granted a certificate of proficiency. These courses begin on the Tuesday following the Christmas recess and continue eight weeks.

The subjects of farm crops, fertilizers, orcharding, gardening, dairying, and butter making, stock breeding and feeding, poultry raising, and veterinary science, are treated in the most practical manner. Very few text-books are used, and the expenses for board and room, which are the only other expenses, are very moderate. A circular descriptive of this course is published each year and will be sent on request.

**The Special Course in Poultry Management**

This two weeks course is given each spring to aid persons who wish a practical knowledge in order to carry on poultry breeding and management. The time in the course is about equally divided between the handling of incubators and brooders, the feeding and rearing of young chicks, the general management of mature fowls, scoring and judging, and killing and marketing poultry. The work is given by means of lectures and practical demonstrations. The equipment available for instruction consists of three thousand laying and breeding birds, forty incubators, one hundred and twenty brooders, and such buildings as are provided for the poultry investigations of the Maine Experiment Station. The dates of the course vary somewhat from year to year and may be obtained upon application to the Dean of the College of Agriculture.

**Farmers' Week**

There are a large number of people who cannot come to the College for a great length of time, but who desire a few days of practical instruction. To reach and accommodate these, “Farmers' Week” is held. Lectures on practical agricultural subjects are given morning, afternoon, and evening. Practical demonstrations occupy a part of each afternoon. Besides the practical subjects discussed, one session is given up to problems of rural betterment, a section is arranged where Domestic Science for farmers' wives is taught. Dates and programs can be secured each year by addressing the Dean of the College of Agriculture.

**The Department of Extension Work**

Extension work in Agriculture embraces those forms of instruction, in subjects having to do with improved methods of agricultural production and with the general welfare of the rural population, that are offered to people not enrolled as resident students in educational institutions.
This work is intended to help persons directly on the farm and in the home; to aid those who desire definite instruction in practical agriculture, horticulture, and animal industry, but who cannot take a long or regular course at the University. It supplements the teaching and experimenting of the College of Agriculture and the Experiment Station. It is professedly a popular work, because it endeavors to aid the farmer to solve the practical problems of the farm, to quicken agricultural work, and to inspire greater interest in country life.

This department of the College of Agriculture offers correspondence courses, lecture courses, and demonstration work.

**Correspondence Courses**

These courses are given by means of text-books and free publications, either furnished by the College or procured from the U. S. Department of Agriculture, or from the various Experiment Stations. The text-books are furnished at publishers' prices. The courses are free and may be taken by individuals, granges, reading circles, or other organizations.

The following courses are offered:

- **Course 1.** — Farm Crops and Crop Production.
- **Course 2.** — Farm Management, Farm Machinery, and Field Engineering.
- **Course 3.** — Feeding and Breeding of Farm Animals and Dairying.
- **Course 4.** — Poultry Management.
- **Course 5.** — Fruit Growing and Vegetable Gardening.
- **Course 6.** — Forestry.
- **Course 7.** — Home Economics.
- **Course 8.** — Nature Study.

More definite information will be sent upon request.

**Lecture Courses**

The College of Agriculture will send members of the faculty to speak at grange meetings, farmers' institutes, and other gatherings, if the traveling expenses of the lecturer are paid by those holding the meeting.

**Demonstration Work**

The College of Agriculture will send members of the Faculty who will make demonstrations, showing as well as telling, how to solve many practical farm problems. These demonstrations are made on the farms and in the barns of the farmer, and are offered under the same conditions as the lectures.
The University of Maine

The following is a partial list of the demonstrations that may be secured: Home Mixing of Fertilizers; Milk Testing (Use of Babcock Tester); Stock Judging; Potato Spraying; Fruit Spraying; Pruning and Grafting.

Circulars giving full information upon this subject will be sent upon request.

Besides the Demonstration work, Correspondence, and Lecture Courses, the College of Agriculture welcomes all kinds of correspondence on practical farm topics. If information is desired along lines relating to crops, fertilizers, dairy work, feeding, or orcharding and gardening, the various instructors are ready to give such assistance as they are able.

The Forestry Course

A complete undergraduate course in forestry is arranged, which may serve as the basis not only of practical work in forestry, but also of a liberal education. A knowledge of the principles of forestry in its different branches is given to the student, and some practice work is done in the forest. For students of agriculture this course offers work which will give a training in the management of the farmer's woodlot.

The instruction in this department consists of lectures, recitations, laboratory, and field work. The woodland belonging to the University, together with adjacent land covered by a young forest, furnishes a field for the study of many forest problems.

Requirements for Graduation

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bl 1, General Biology</td>
<td></td>
<td>2</td>
<td>Bl 21, General Botany</td>
<td>2</td>
</tr>
<tr>
<td>Bl 2, Lab. Biology</td>
<td></td>
<td>1</td>
<td>Bl 22, Lab. Botany</td>
<td>2</td>
</tr>
<tr>
<td>Eh 1, Public Speaking</td>
<td></td>
<td>1</td>
<td>Eh 1, Public Speaking</td>
<td>1</td>
</tr>
<tr>
<td>Eh 3, English Composition</td>
<td></td>
<td>3</td>
<td>Eh 4, English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Md 1, Drawing</td>
<td></td>
<td>2</td>
<td>Mt 1, Military</td>
<td>2(\frac{1}{2})</td>
</tr>
<tr>
<td>Ms 2, Algebra</td>
<td></td>
<td>5</td>
<td>Ms 6a, Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>Mt 1, Military</td>
<td></td>
<td>2(\frac{1}{2})</td>
<td>Ms 4, Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>Modern Language</td>
<td></td>
<td>3</td>
<td>Mt 1, Military</td>
<td>2(\frac{1}{2})</td>
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<tr>
<td></td>
<td></td>
<td>19(\frac{1}{2})</td>
<td>Modern Language</td>
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<tr>
<td></td>
<td></td>
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<td>21(\frac{1}{2})</td>
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### SOPHOMORE YEAR

#### Fall Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag 1, Soils</td>
<td>2</td>
</tr>
<tr>
<td>Ag 2, Lab. Soils</td>
<td>1</td>
</tr>
<tr>
<td>Bl 23, General Botany</td>
<td>2</td>
</tr>
<tr>
<td>Bl 24, Lab. Botany</td>
<td>2</td>
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<tr>
<td>Bl 38, Forest Botany</td>
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</tr>
<tr>
<td>Bl 39, Lab. Forest Botany</td>
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<tr>
<td>Ce 1a, Plane Surveying, 3 hours, 12 weeks</td>
<td>1 1/3</td>
</tr>
<tr>
<td>Ce 2a, Plane Surveying, 1 hour, 6 weeks *6</td>
<td>2/3</td>
</tr>
<tr>
<td>Ch 1, General Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>Ch 3, Lab. Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>Eh 2, English Composition</td>
<td>1</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Pt Physical Training</td>
<td>%</td>
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</tbody>
</table>

**Total: 20%**

#### Spring Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bl 27, Plant Physiology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 28, Lab. Plant Physiology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 40, Forest Botany</td>
<td>2</td>
</tr>
<tr>
<td>Bl 41, Lab. Forest Botany</td>
<td>2</td>
</tr>
<tr>
<td>Ce 2b, Plotting, 12 weeks *4</td>
<td>1 1/3</td>
</tr>
<tr>
<td>Ce 2c, Field Work, last 6 weeks *6</td>
<td>2/3</td>
</tr>
<tr>
<td>Ch 2, Chemistry</td>
<td>3</td>
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<tr>
<td>Ch 4, Lab. Chemistry</td>
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<tr>
<td>Eh 2, English Composition</td>
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<tr>
<td>Modern Language</td>
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<tr>
<td>Pt Physical Training</td>
<td>18 1/3</td>
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</tbody>
</table>

**Total: 18 1/3%**

### JUNIOR YEAR

#### Fall Semester

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<th>Subject</th>
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<tbody>
<tr>
<td>Bc 3, Geology</td>
<td>3</td>
</tr>
<tr>
<td>Bl 9, Physiology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 25, Plant Histology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 26, Lab. Plant Histology</td>
<td>2</td>
</tr>
<tr>
<td>Fy 6, Silviculture</td>
<td>2</td>
</tr>
<tr>
<td>Fy 8, Silviculture, Field Work</td>
<td>2</td>
</tr>
<tr>
<td>Pt Physical Training</td>
<td>%</td>
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<tr>
<td>Electives</td>
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**Total: 18%**

#### Spring Semester

<table>
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<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Bl 10, Entomology</td>
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<tr>
<td>Bl 11, Lab. Entomology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 31, Plant Pathology</td>
<td>2</td>
</tr>
<tr>
<td>Bl 32, Lab. Plant Pathology</td>
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<tr>
<td>Ce 9a, Higher Surveying</td>
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</tr>
<tr>
<td>Ce 9b, Higher Surveying, Field Work</td>
<td>2</td>
</tr>
<tr>
<td>Fy 7, Silviculture</td>
<td>2</td>
</tr>
<tr>
<td>Fy 9, Silviculture, Field Work</td>
<td>2</td>
</tr>
<tr>
<td>Pt Physical Training</td>
<td>%</td>
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<tr>
<td>Electives</td>
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**Total: 17%**

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137
### Fall Semester

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<tr>
<td>Bl 42, Forest Zoology</td>
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<tr>
<td>Fy 10, Forest Measurements</td>
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<tr>
<td>Fy 11, Forest Measurements, Field Work†4</td>
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<tr>
<td>Fy 12, Lumbering</td>
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### Spring Semester

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<tr>
<td>Fy 5, Lab. Measurements†2</td>
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<tr>
<td>Fy 13, Forest Management</td>
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<tr>
<td>Fy 14, Thesis†10</td>
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<table>
<thead>
<tr>
<th>Electives</th>
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<tbody>
<tr>
<td>Bl 3a, Ornithology</td>
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<tr>
<td>Bl 7, Zoology</td>
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<tr>
<td>Bl 8, Lab. Zoology†4</td>
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<tr>
<td>Bl 15 or 16, Veterinary Science</td>
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<tr>
<td>Bl 17, Lab. Bacteriology†10</td>
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<tr>
<td>Bl 18, Advanced Botany</td>
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<tr>
<td>Ce 16, Hydraulics</td>
<td>3</td>
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<tr>
<td>Ce 17, Hydraulic Engineering</td>
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<tr>
<td>Ch 8, Elementary Organic</td>
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<tr>
<td>Ch 13, Mineralogy</td>
<td>3</td>
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<tr>
<td>Ch 15, Qualitative Analysis†8</td>
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<tr>
<td>Ch 18, Quantitative Analysis†8</td>
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<tr>
<td>Ch 20, Agricultural Chemistry</td>
<td>4</td>
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<td>Ec 6, Business Law</td>
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<td>History</td>
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<td>Ms 11, Advanced Algebra</td>
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<tr>
<td>Pl 2, Logic</td>
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<tr>
<td>Me 2, Forge Work†4</td>
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</tbody>
</table>

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 work in absence, including the presentation of a satisfactory thesis and examination at the University, he receives the degree of Master of Science.
THE COLLEGE OF TECHNOLOGY

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.

President of the University

JAMES NORRIS HART, C. E., M. S.

Professor of Mathematics and Astronomy. Dean of the University

ALFRED BELLAMY AUBERT, M. S.

Professor of Chemistry

LUCIUS HERBERT MERRILL, B. S.

Professor of Biological and Agricultural Chemistry

FREMONT LINCOLN RUSSELL, B. S., V. S.

Professor of Biology

HORACE MELVYN ESTABROOKE, M. A.

Professor of English

JAMES STACY STEVENS, M. S., LL. D.

Professor of Physics

GILMAN ARTHUR DREW, Ph. D.

Professor of Biology

RALPH KNEELAND JONES, B. S.

Librarian

JACOB BERNARD SEGALL, Ph. D.

Professor of Romance Languages

HAROLD SHERBURN BOARDMAN, C. E.

Professor of Civil Engineering

ARTHUR CRAWFORD JEWETT, B. S.

Professor of Mechanical Engineering

WALTER KIERSTED GANONG, B. Sc.

Professor of Electrical Engineering

JOSEPH WILLIAM CARR, Ph. D.

Professor of Germanic Languages

ROBERT JAMES SPRAGUE, Ph. D.

Professor of Economics and Sociology

WALTER STEVENS BROWN

Professor of Military Science and Tactics

CHARLES PARTRIDGE WESTON, C. E., M. A.

Professor of Mechanics and Drawing

GEORGE RUFUS WHEELER, M. A.

Acting Assistant Professor of English

CHARLES BARTO BROWN, C. E.

Assistant Professor of Civil Engineering

ANDREW PAUL RAGGIO, Ph. D.

Assistant Professor of Romance Languages
The University of Maine

WALTER MOLBRAY CURTIS, S. B.  
Assistant Professor of Mechanical Engineering

HARLEY RICHARD WILLARD, M. A.  
Assistant Professor of Mathematics

ARCHER LEWIS GROVER, B. S.  
Instructor in Drawing

EVERETT WILLARD DAVEE  
Instructor in Wood and Iron Work

WALTER EVERETT PRINCE, M. A.  
Instructor in English

PERCY LORING REYNOLDS, M. D.  
Physical Director and University Physician

ELMER EARL MOOTS, B. C. E.  
Instructor in Mathematics

WINDSOR PRATT DAGGETT, Ph. B.  
Instructor in Public Speaking

CHARLES JENKINS CARTER  
Instructor in the Machine Shop

GUSTAV FREDERICK WITTIG, B. S., E. E.  
Instructor in Electrical Engineering

HENRY WALTER BEARCE, B. S.  
Instructor in Physics

DAYTON JAMES EDWARDS, B. S.  
Instructor in Biology

PAUL LEONARD BEAN, B. S.  
Instructor in Civil Engineering

ROBERT EDMUND CLAYTON, B. S.  
Instructor in Chemistry

GLADYS ETHEL FELLOWS, B. A.  
Instructor in Romance Languages

LESLIE IRVING JOHNSTONE, B. S.  
Instructor in Civil Engineering

JAMES SEYMOUR, Ph. C., B. S.  
Instructor in Chemistry

HENRY LEWIS SWEET, B. A.  
Instructor in Mathematics

WILLIS FLYE WASHBURN, B. S.  
Instructor in Chemistry

LOWELL JACOB REED, B. S.  
Instructor in Mathematics and Physics

GEORGE EDWARD PEARSON, M. A.  
Instructor in English

ARTHUR RUSSELL LORD, B. S.,  
Tutor in Civil Engineering

CARLETON CHASE MURDOCK, B. A.  
Tutor in Physics

CHARLES HENRY SAMPSON, B. S.  
Tutor in Drawing

The following executive committee of the Faculty of Instruction of the College of Technology is given power to arrange courses, act upon petitions, and transact general business relating to the technical time of the departments of engineering. The regular meetings of this body occur on the Tuesday preceding the general faculty meeting at 4:30 p. m.

Professor Boardman, Chairman; Professor Ganong, Secretary; Professor Aubert, Professor Jewett, Professor Weston, Assistant Professor Brown, Assistant Professor Curtis, Mr. Grover, Mr. Wittig, Mr. Bean, Mr. Johnstone, Mr. Lord.
The University of Maine

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, and in various branches of engineering, including forestry. The number of credits required for graduation in this college is thirty. In such technical courses it is necessary to prescribe a large proportion of the work; but some elective studies may be chosen in the junior and senior years. Under each of the courses described below is given a tabulated statement of the subjects pursued and the amount of work required. The college comprises:

The Chemical Course
The Chemical Engineering Course
The Civil Engineering Course
The Mechanical Engineering Course
The Electrical Engineering Course
The Mining Engineering Course

At graduation in any of these courses the student receives the degree of Bachelor of Science. The diploma indicates which course has been completed.

THE CHEMICAL COURSE

This course is designed for those who plan to become professional chemists and analysts, or teachers of chemistry. Attention is given to preparation for the work of the agricultural experiment station.

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.

Eleven credits are required for the completion of the major, and a total of thirty for graduation.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rm 3a, French</td>
<td>3</td>
<td>Rm 3b, French</td>
<td>2</td>
</tr>
<tr>
<td>Eh 3, English Composition and Rhetoric</td>
<td>3</td>
<td>Eh 4, English Composition and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>Ms 2, Algebra</td>
<td>5</td>
<td>Ms 4, Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 1, General Chemistry</td>
<td>2</td>
<td>Ms 6a, Analytical Geom</td>
<td>2</td>
</tr>
<tr>
<td>Ch 3, Lab. Chemistry</td>
<td>1</td>
<td>Ch 2, General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Md 1, Drawing</td>
<td>2</td>
<td>Ch 4, Lab. Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>Eh 1, Public Speaking</td>
<td>1</td>
<td>Eh 1, Public Speaking</td>
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<td>Mt 1, Military</td>
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<td>Mt 1, Military</td>
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191/2

171/2
## The University of Maine

### Sophomore Year

<table>
<thead>
<tr>
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<tr>
<td>Gm 1, German</td>
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<tr>
<td>Ps 12, General Physics</td>
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</tr>
<tr>
<td>Ch 5, Advanced Inorganic Chemistry</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Ch 14, Qualitative Analysis</td>
<td>4</td>
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<tr>
<td>Eh 2, Themes</td>
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<td>Bl 1, 2, General Biology</td>
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<tr>
<td>Ps 5, Lab. Physics</td>
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<td></td>
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<tr>
<td>Ch 6, Advanced Inorganic Chemistry</td>
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<td>Ch 15, Qualitative Analysis</td>
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<tr>
<td>Eh 2, Themes</td>
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### Junior Year

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<tr>
<td>Ch 16, 18, Quant. Anal.</td>
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<td>Ch 7, Organic Chemistry</td>
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<tr>
<td>Ch 30, Biological Chemistry</td>
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<td>Elective</td>
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<tr>
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<tbody>
<tr>
<td>Gm 3b, German</td>
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<td>Ch 8, Organic Chemistry</td>
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<td>Ch 19, Volumetric Analysis and Assaying</td>
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### Senior Year

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<td>Ch 24a, Industrial Chemistry</td>
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<tr>
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<td>Ch 28, Dyeing</td>
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<td>Ch 22, Thesis</td>
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<td>Ch 25, Technical Analysis</td>
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<tr>
<td>Ch 13, Chemical Equations</td>
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</table>

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 and examination at the University, he receives the degree of Master of Science.

### The Chemical Engineering Course

This course is especially designed for those who intend to enter industries that require a more or less extensive knowledge of chemistry,
as well as of applied mathematics and some of the engineering studies, thus fitting them for positions as chemists or managers of manufacturing plants.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Rm 3a, French</td>
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<td>Rm 3b, French</td>
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<td>Eh 4, English Composition and</td>
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<td>Ms 2, Algebra</td>
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<td>Ms 4, Trigonometry</td>
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<td>Ch 4, Lab. Chemistry</td>
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19 1/2

### SOPHOMORE YEAR

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<tr>
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<td>Ch 15, Qual. Analysis</td>
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<tr>
<td>Ps 1, Physics</td>
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<td>Ps 2, Physics</td>
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<td>Md 9, Drawing 4</td>
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<td>1 1/3</td>
<td>Md 5, Lab. Physics</td>
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<td>Modern Language</td>
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<tr>
<td>Ms 6b, Analytic Geometry</td>
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<td>Ms 8, Calculus</td>
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<td>Ms 7, Calculus</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Ch 7, Elementary Organic Chem</td>
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<td>Ch 19, Volumetric Analysis and</td>
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<tr>
<td>Me 1, Wood Work</td>
<td></td>
<td>1 1/3</td>
<td>Me 4, Kinematics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Md 5, Mechanics</td>
<td></td>
<td>5</td>
<td>Me 10, Fuels</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Physical Training</td>
<td></td>
<td></td>
<td>Md 6, Mechanics</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
<td>Me 2, Forge Work</td>
<td></td>
<td>1 1/4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Physical Training</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
<td></td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>
### SENIOR YEAR

#### Fall Semester
```
<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 24a, Industrial Chem.</td>
<td>2</td>
</tr>
<tr>
<td>Ch 20 and 25, Agricultural and</td>
<td></td>
</tr>
<tr>
<td>Technical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Me 11, Steam Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Me 26, Mechanical Lab.</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Ee 10a, Electrical Development</td>
<td>3</td>
</tr>
<tr>
<td>and Application</td>
<td></td>
</tr>
<tr>
<td>Ee 11a, Electrical Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>1 1/2</td>
</tr>
</tbody>
</table>
```

#### Spring Semester
```
<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 24b, Industrial Chem.</td>
<td>2</td>
</tr>
<tr>
<td>Ch 25b, Technical Analysis and Thesis</td>
<td>4</td>
</tr>
<tr>
<td>Me 5, Machine Work</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Ch 32, Physical Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>8</td>
</tr>
</tbody>
</table>
```

### THE CIVIL ENGINEERING COURSE

The object of the course in Civil Engineering is to give the student as thorough a knowledge as possible of the principles underlying the profession. It is not possible in the time usually devoted to a college course to take up more than the most important technical subjects, hence the time devoted to those subjects designed to cultivate and broaden the mind is necessarily small. The attempt is made, however, to give the student not only a technical education, but to at least form the basis for a liberal one as well.

The attention of the student is directed to the fact that the scope of civil engineering is so broad that he may never expect to become expert in all of its branches, and that on the completion of his course he should obtain employment in that branch for which he seems best adapted.

It is impressed upon his mind that the granting of his bachelor's degree does not create him an engineer. It simply indicates that he has received the technical mental training which will fit him to follow the profession, and that he must begin at the bottom of the ladder of practice in order to obtain experience and judgment, without which he can never become successful.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice, and designing. Effort is made to acquaint the student with the best engineering practice, and with the standard engineering literature. During each year it is the practice to have several lectures by engineers from other institutions and from the engineering world. These lectures tend to increase the interest of the student, and to bring him in touch with men outside of his institution.

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The engineering building contains recitation rooms, designing rooms, testing laboratories, drawing rooms, instrument rooms, and a filing and reference room, and is well equipped with apparatus.

The work of the first year is the same for all engineering students, especial attention being paid to mathematics and English. The technical work begins in the fall semester of the second year with field work and the study of surveying. This technical work is gradually increased, until the last year when it is nearly all professional. In the spring semester of the third year the student is required to choose between two optional lines of study. Option 1 consists of work in Hydraulic Engineering, while Option 2 consists of work in Railroad Engineering. The time devoted to each option is the same. Owing to the available facilities of the department not more than sixty per cent of the number of students in a class are allowed to select either option. A written statement is required from each student before the close of the fall semester giving his reasons for his selection. The head of the department reserves the right to make the final division.

The following subjects constitute the regular four years' course. Certain general subjects which are given as requirements, may, on presentation of satisfactory reasons to the head of the department, be omitted and others substituted.

Requirements for Graduation

Freshman Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>Ch 1, Chemistry</td>
<td>2</td>
<td>Ch 2, Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 3, Lab. Chemistry +</td>
<td>1</td>
<td>Ch 4, Lab. Chemistry +</td>
<td>1</td>
</tr>
<tr>
<td>Eh 1a, Public Speaking</td>
<td>1</td>
<td>Eh 1b, Public Speaking</td>
<td>1</td>
</tr>
<tr>
<td>Eh 3, English Composition +</td>
<td>3</td>
<td>Eh 4, English Composition +</td>
<td>3</td>
</tr>
<tr>
<td>Md 1, Drawing + Modern Language</td>
<td>3</td>
<td>Md 2, Drawing + Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Ms 2, Algebra +</td>
<td>5</td>
<td>Ms 4, Trigonometry +</td>
<td>2</td>
</tr>
<tr>
<td>Mt 1, Military Drill +</td>
<td>2½</td>
<td>Ms 6a, Analytic Geometry +</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt 1, Military Drill +</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td>19½</td>
<td></td>
<td>19½</td>
</tr>
</tbody>
</table>

††A student beginning a new language must take a five hour course, which will complete the modern language requirement. In case this is done, Eh 3, English Composition, will be taken in the sophomore year.
### SOPHOMORE YEAR

#### Fall Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ce 1a, Surveying</td>
<td>2 2/3</td>
</tr>
<tr>
<td>Ce 2a, Field Work</td>
<td></td>
</tr>
<tr>
<td>Eh 2a, English Composition</td>
<td>1</td>
</tr>
<tr>
<td>Ms 6b, Analytical Geometry</td>
<td></td>
</tr>
<tr>
<td>Ms 7, Calculus</td>
<td>5</td>
</tr>
<tr>
<td>†† Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Md 3, Drawing *6</td>
<td>2</td>
</tr>
<tr>
<td>Ps 1, Physics</td>
<td>5</td>
</tr>
<tr>
<td>Pt Physical Training *2</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>19 2/3</td>
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</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ce 2b, Plotting</td>
<td>1 2/3</td>
</tr>
<tr>
<td>Ce 2c, Field Work</td>
<td></td>
</tr>
<tr>
<td>Ce 3a, Railroad Curves</td>
<td>3</td>
</tr>
<tr>
<td>Ce 4a, Railroad Field Work</td>
<td></td>
</tr>
<tr>
<td>Eh 2b, English Composition</td>
<td>1</td>
</tr>
<tr>
<td>Ms 8, Calculus</td>
<td>5</td>
</tr>
<tr>
<td>†† Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Md 4, Drawing *6</td>
<td>2</td>
</tr>
<tr>
<td>Ps 2, Physics</td>
<td>3</td>
</tr>
<tr>
<td>Ps 5, Lab. Physics †4</td>
<td>2</td>
</tr>
<tr>
<td>Pt Physical Training *2</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>19 2/3</td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ce 3b, Earthwork</td>
<td>1</td>
</tr>
<tr>
<td>Ce 4b, Railroad Field Work</td>
<td>2</td>
</tr>
<tr>
<td>Ce 5, Highway Engineering</td>
<td>2</td>
</tr>
<tr>
<td>Ec 1b, Political Economy</td>
<td>2</td>
</tr>
<tr>
<td>Ms 10, Practical Astronomy</td>
<td>2</td>
</tr>
<tr>
<td>Md 5, Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>Ps 9, Lab. Physics †4</td>
<td>2</td>
</tr>
<tr>
<td>Ps 19, Least Squares</td>
<td>1</td>
</tr>
<tr>
<td>Pt Physical Training *2</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>17 2/3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ce 6, Drawing *6</td>
<td>2</td>
</tr>
<tr>
<td>Ce 9a, Advanced Surveying</td>
<td>1</td>
</tr>
<tr>
<td>Ce 8, Sanitary Engineering</td>
<td>2</td>
</tr>
<tr>
<td>Ce 9b, Advanced Surveying</td>
<td>2</td>
</tr>
<tr>
<td>Ce 19, Railroad Engineering</td>
<td></td>
</tr>
<tr>
<td>Ce 10, Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>Ce 21, Structures</td>
<td>2</td>
</tr>
<tr>
<td>Ec 1b, Political Economy</td>
<td>2</td>
</tr>
<tr>
<td>Md 6, Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>Pt Physical Training *2</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td>17 2/3</td>
</tr>
</tbody>
</table>

†† A student beginning a new language must take a five hour course, which will complete the modern language requirement. In case this is done, Eh 3, English Composition, will be taken in the sophomore year.
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’ work in absence, including the presentation of a satisfactory thesis and examination at the University, 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.

THE MECHANICAL ENGINEERING COURSE

The prescribed studies in this course are intended to give the student a fundamental engineering training. Care has been taken so to arrange the sequence of subjects that the instruction given may have the greatest efficiency. Each course should be completed in its prescribed order. Variation from the stated order may only be made in important cases.

The first two years are preparatory for the professional work. In this time the prescribed courses in mathematics and language are completed. The student who would be successful in his professional studies should master thoroughly the required mathematics. A good reading knowledge of German or French should be acquired in this time, as many of the more important engineering papers first appear in those languages.

Time limitation prevents much specializing in the professional subjects of the last two years, other than by choosing among the various main branches of Civil, Electrical, or Mechanical engineering. Arrangements have been made, however, to allow a student of mechanical engineering...
to cover more ground in electrical engineering if his standing admits of the extra work.

The professional subjects should train a student to think for himself and have self-reliance in undertaking new work, as well as give him professional information. The general subjects prescribed are considered of especial importance to a student of applied science.

The tabulated list shows the prescribed subjects and the time given to each. More detailed information may be had from the brief descriptions of each subject, found under "Courses of Instruction."

**Requirements for Graduation**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>Ch 1, Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>Ch 3, Chemical Laboratory * 2</td>
<td>1</td>
</tr>
<tr>
<td>Eh 1, Public Speaking</td>
<td>1</td>
</tr>
<tr>
<td>Eh 3, English Composition</td>
<td>3</td>
</tr>
<tr>
<td>†† Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Md 1, Drawing * 6</td>
<td>2</td>
</tr>
<tr>
<td>Ms 2, Algebra</td>
<td>5</td>
</tr>
<tr>
<td>Mt 1, Military † 5</td>
<td>2 1/2</td>
</tr>
<tr>
<td></td>
<td><strong>19 1/2</strong></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>Ch 2, Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 4, Chemical Laboratory * 2</td>
<td>1</td>
</tr>
<tr>
<td>Eh 1, Public Speaking</td>
<td>1</td>
</tr>
<tr>
<td>Eh 4, English Composition</td>
<td>3</td>
</tr>
<tr>
<td>†† Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Md 2, Drawing * 6</td>
<td>2</td>
</tr>
<tr>
<td>Ms 4, Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>Ms 6a, Analytical Geometry</td>
<td>2</td>
</tr>
<tr>
<td>Mt 1, Military † 5</td>
<td>2 1/2</td>
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<td><strong>19 1/2</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Eh 2, Themes</td>
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</tr>
<tr>
<td>Md 3, Descriptive Geometry</td>
<td>* 6 2</td>
</tr>
<tr>
<td>Ms 6b, Analytical Geometry</td>
<td>* 6 2</td>
</tr>
<tr>
<td>Ms 7, Calculus</td>
<td>5</td>
</tr>
<tr>
<td>Ps 1, General Physics</td>
<td>5</td>
</tr>
<tr>
<td>†† Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Me 1, Woodwork * 6</td>
<td>2</td>
</tr>
<tr>
<td>Physical Training * 2</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td><strong>18 %</strong></td>
</tr>
<tr>
<td>Eh 2, Themes</td>
<td>1</td>
</tr>
<tr>
<td>Md 4, Descriptive Geometry</td>
<td>* 6 2</td>
</tr>
<tr>
<td>Ps 2, General Physics</td>
<td>3</td>
</tr>
<tr>
<td>Ps 5, Physics Laboratory † 4</td>
<td>2</td>
</tr>
<tr>
<td>Ms 8, Calculus</td>
<td>5</td>
</tr>
<tr>
<td>†† Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Me 2, Forge Work * 4</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Me 4, Kinematics</td>
<td>3</td>
</tr>
<tr>
<td>Physical Training * 2</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td><strong>20</strong></td>
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</tbody>
</table>

†† A student beginning a new language must take a five hour course, which will complete the modern language requirement. In case this is done, Eh 3, English Composition, will be taken in the sophomore year.
The University of Maine

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th><strong>Fall Semester</strong></th>
<th><strong>Spring Semester</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subject</strong></td>
<td><strong>Subject</strong></td>
</tr>
<tr>
<td>Me 3, Mechanism of Machines</td>
<td>Me 6, Mechanics</td>
</tr>
<tr>
<td>Me 9, Materials of Engineering</td>
<td>Me 8, Machine Design</td>
</tr>
<tr>
<td>Me 24, Drawing *3½.</td>
<td>Me 10, El. Steam Engineering</td>
</tr>
<tr>
<td>Md 5, Mechanics</td>
<td>Me 15, Mechanical Lab. †2...</td>
</tr>
<tr>
<td>Ec 1, Political Economy</td>
<td>Ec 1, Political Economy</td>
</tr>
<tr>
<td>Ps 9, Mechanics &amp; Heat *4...</td>
<td>Me 20, Heating &amp; Ventilation</td>
</tr>
</tbody>
</table>
| Elective | Physical Training *2... | 2 | Ⅱ%
| Physical Training *2... | Me 19, Machine Drawing *4... | Ⅱ% | Ⅲ%

**YEAR**

<table>
<thead>
<tr>
<th><strong>Fall Semester</strong></th>
<th><strong>Spring Semester</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subject</strong></td>
<td><strong>Subject</strong></td>
</tr>
<tr>
<td>Md 6, Mechanics</td>
<td>Me 6, Mechanics</td>
</tr>
<tr>
<td>Me 5, Machine Tool Work *9.</td>
<td>Me 5, Machine Tool Work</td>
</tr>
<tr>
<td>Me 8, Machine Design</td>
<td>Me 10, El. Steam Engineering</td>
</tr>
<tr>
<td>Me 15, Mechanical Lab. †2...</td>
<td>Me 19, Machine Drawing *4...</td>
</tr>
</tbody>
</table>
| Me 20, Heating & Ventilation | Physical Training *2... | 1 | Ⅲ%
| Me 19, Machine Drawing *4... | Me 19, Machine Drawing *4... | Ⅲ% | Ⅲ%

**SENIOR YEAR**

<table>
<thead>
<tr>
<th><strong>Subject</strong></th>
<th><strong>Subject</strong></th>
<th><strong>Hours</strong></th>
<th><strong>Subject</strong></th>
<th><strong>Hours</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ee 10a, Electrical Engineering</td>
<td>Me 7, Valve Gears</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Ee 11a, Electrical Lab'y *4...</td>
<td>Me 15, Mechanical Lab'y †4...</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Me 11, Thermodynamics</td>
<td>Me 16, Adv. Steam Engineering</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Me 12, Steam Boiler Design *6 2</td>
<td>Me 17, Steam Eng. Design †6 3</td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Me 15, Mechanical Lab'y *2...</td>
<td>Me 13, Hydraulic Machinery</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Me 18, Advanced Design</td>
<td>Ec 9, Contracts and Spec</td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Ce 1, Plane Surveying</td>
<td>Elective</td>
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<td>3</td>
<td></td>
</tr>
<tr>
<td>Ce 2, Field Work Surveying</td>
<td>Ce 23, Hydraulics</td>
<td>½</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Ce 22, Foundations</td>
<td>Ce 23, Hydraulics</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

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Elective subjects are limited to those considered best adapted to a student of applied science.

Students doing sufficiently well with the regular work as scheduled above will be allowed to elect from the following technical subjects: Ce 23, Hydraulics; Ce 22, Foundations; Me 13, Hydraulic Machinery; Me 14, 19, 23, Marine Engineering; Me 20, Heating and Ventilation; Me 21, Seminary and Ee 10b.

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 and examination at the University, 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.
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**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 running of the same. In addition to this purely electrical work the student takes up carpentry, forge work, machine work, mechanical drawing, mathematics, physics, mechanics, steam engineering, and other subjects allied to engineering work. The general courses, required or elective, include English language, logic, psychology, history, political economy, education, sociology, and constitutional law.

The equipment for laboratory work in electrical engineering is ample and includes the standard forms of instruments and machines.

**Requirements for Graduation**

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td></td>
<td></td>
<td>Subject</td>
<td></td>
</tr>
<tr>
<td>Ch 1, Chemistry</td>
<td>2</td>
<td></td>
<td>Ch 2, Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 3, Lab. Chemistry</td>
<td>2</td>
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<td>Ch 4, Lab. Chemistry</td>
<td>1</td>
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<tr>
<td>Eh 1, Public Speaking</td>
<td>1</td>
<td></td>
<td>Eh 1, Public Speaking</td>
<td>1</td>
</tr>
<tr>
<td>Eh 3, English Composition</td>
<td>3</td>
<td></td>
<td>Eh 4, English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Md 1, Drawing, *6</td>
<td>2</td>
<td></td>
<td>Md 2, Drawing *6</td>
<td>2</td>
</tr>
<tr>
<td>Ms 2, Algebra</td>
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<td>Ms 4, Trigonometry</td>
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<tr>
<td>Mt 1, Military † 5</td>
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<td>Ms 6a, Analytic Geom</td>
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<tr>
<td>Mt 1, Military † 5</td>
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<td></td>
<td>Mt 1, Military † 5</td>
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<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
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<tr>
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<td>Md 3, Descriptive Geom.</td>
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<td>Md 9, Drawing</td>
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<td>Me 1, Wood Work † 4</td>
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150
The University of Maine

### JUNIOR YEAR

#### Fall Semester
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<tr>
<td>Md 5, Mechanics</td>
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<tr>
<td>Me 5, Machine Work *4</td>
<td>1 1/2</td>
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<tr>
<td>Ps 11, Electrical Meas. †6</td>
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<tr>
<td>Ec 1, Political Economy</td>
<td>2</td>
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<tr>
<td>Hy 5, History; or Ec 7 European Government</td>
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<tr>
<td>Physical Training *2</td>
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**Total:** 18 2/3

#### Spring Semester
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<tbody>
<tr>
<td>Ee 1b, Elements of Electrical Engineering</td>
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<td>Me 6, Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>Me 5, Machine Work *4</td>
<td>1 1/2</td>
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<tr>
<td>Ec 1, Political Economy</td>
<td>2</td>
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<tr>
<td>Me 10, Fuels</td>
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<td>Me 8, Machine Design</td>
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<td>Physical Training *2</td>
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**Total:** 18

### SENIOR YEAR

#### Fall Semester
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<td>Ee 3a, Elements of Alternating Currents</td>
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<tr>
<td>Ee 4a, Electrical Development</td>
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<tr>
<td>Ee 5a, Design of Electrical Machinery †4.</td>
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<tr>
<td>Ee 6a, Laboratory Work †4</td>
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<td>Me 11, Steam Engineering</td>
<td>3</td>
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<tr>
<td>Me 26, Mechanical Lab'y †3</td>
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<td>Ce 1 and 2, Plain Surveying and Field Work</td>
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<td>Ce 23, Hydraulics</td>
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#### Spring Semester
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<tr>
<td>Ee 7b, Electrical Engineering</td>
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<td>Ee 5b, Design of D. C. and A. C. Machinery</td>
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</tr>
<tr>
<td>Ee 6b, Laboratory Work †4</td>
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<tr>
<td>Ee 8b, Electrical Engineering</td>
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<td>Practice *4</td>
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<td>Ec 6, Business Law</td>
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<td>Me 19, Machine Drawing *4</td>
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<td>Elective</td>
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**Total:** 17 1/6

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 and examination at the University, 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.
The University of Maine

COLLEGE OF PHARMACY

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.  President of the University

JAMES NORRIS HART, C. E., M. S.  Professor of Mathematics and Astronomy and Dean of the University

ALFRED BELLAMY AUBERT, M. S.  Professor of Chemistry

LUCIUS HERBERT MERRILL, B. S.  Professor of Biological and Agricultural Chemistry

FREMONT LINCOLN RUSSELL, B. S., V. S.  Professor of Biology

HORACE MELVYN ESTABROOKE, M. A.  Professor of English

JAMES STACY STEVENS, M. S., LL. D.  Professor of Physics

GILMAN ARTHUR DREW, Ph. D.  Professor of Biology

WILBUR FISK JACKMAN, B. S., Ph. C.  Professor of Pharmacy

RALPH KNEELAND JONES, B. S.  Librarian

JACOB BERNARD SEGALL, Ph. D.  Professor of Romance Languages

WALTER STEVENS BROWN  Professor of Military Science and Tactics

MINTIN ASBURY CHRYSLER, Ph. D.  Associate Professor of Botany

GEORGE RUFUS WHEELER, M. A.  Acting Professor of English

ANDREW PAUL RAGGIO, Ph. D.  Assistant Professor of Romance Languages

HARLEY RICHARD WILLARD, M. A.  Assistant Professor of Mathematics

WALTER EVERETT PRINCE, M. A.  Instructor in English

PERCY LORING REYNOLDS, M. D.  Physical Director and University Physician

ELMER EARL MOOTS, B. C. E.  Instructor in Mathematics

WINDSOR PRATT DAGGETT, Ph. B.  Instructor in Public Speaking

HENRY WALTER BEARCE, B. S.  Instructor in Physics

DAYTON JAMES EDWARDS, B. S.  Instructor in Biology

ROBERT EDMUND CLAYTON, B. S.  Instructor in Chemistry
The University of Maine

GLADYS ETHEL FELLOWS, B. A.  
Instructor in Romance Languages

JAMES SEYMOUR, Ph. C., B. S.  
Instructor in Chemistry

HENRY LEWIS SWEET, B. A.  
Instructor in Mathematics

WILLIS FLYE WASHBURN, B. S.  
Instructor in Chemistry

CHARLES SYLVESTER RIDGWAY, B. S.  
Instructor in Botany

LOWELL JACOB REED, B. S.  
Instructor in Mathematics and Physics

GEORGE EDWARD PEARSON, M. A.  
Instructor in English

CARLETON CHASE MURDOCK, B. A.  
Tutor in Physics

GENERAL INFORMATION

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. Thirty credits are required for graduation.

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, make 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.
The University of Maine

**Requirements for Graduation**

**Freshman Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Semester</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Rm 3a, French</td>
<td></td>
<td>3</td>
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<td>Rm 3b, French</td>
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<td>Eh 1, Pub. Speaking</td>
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</tr>
<tr>
<td>Ch 1, Gen. Chemistry</td>
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<td>Ch 2, General Chemistry</td>
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<tr>
<td>Ch 3, Lab. Chem. † 2</td>
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<td>Ch 4, Lab. Chem. † 2</td>
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<td>Ms 1, Solid Geom.</td>
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<td>Military † 5</td>
<td>2 1/2</td>
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**Sophomore Year**

<table>
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<th>Subject</th>
<th>Spring Semester</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>Rm 4b, French</td>
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<td>Ch 6, Inorg. Chemistry</td>
<td>3</td>
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<tr>
<td>Ch 14, Qual. Anal. † 8</td>
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<td>4</td>
<td>Ch 15, Qual. Anal. † 8</td>
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<td>Bl 21, Gen. Botany</td>
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<td>Bl 2, Lab. Biol. † 2</td>
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<td>Bl 22, Lab. Botany † 4</td>
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**Junior Year**

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<th>Spring Semester</th>
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<tr>
<td>Ch 7, Org. Chemistry</td>
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<td>Ch 8, Org. Chemistry</td>
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<tr>
<td>Ch 16, Quant. Anal. † 8</td>
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<td>4</td>
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<td>Ch 19, Vol. Anal. † 12</td>
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<td>Ch 30, Biol. Chem.</td>
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<td>Ch 21, Tox. etc. † 2</td>
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<td>Ch 31, Chem. Eq.</td>
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<tr>
<td>Bl 26, Lab. Plant Hist. † 4</td>
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<td>2</td>
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<td>Bl 17, Bacteriol. † 6</td>
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* Students beginning German must take five hours per week for a year, which will complete the required work in modern language.
The University of Maine

**SENIOR YEAR**

<table>
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<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
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<td>Pm 7, Mater. Med.</td>
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<td>Pm 9, Pharm. Reading</td>
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<tr>
<td>Pm 10, Lab. Pharm.</td>
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<tr>
<td>Pm 11, Prescriptions</td>
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From courses in History, Philosophy, and Civics a total of at least five hours must be chosen.

The number of hours required and elected need not exceed 150, or 30 credits.

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, and examination at the University, he receives the degree of Master of Science.

**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 pharmacy colleges. 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. The brevity of this course does not warrant extending to other than advanced students the privilege of electives.
### The University of Maine

#### Requirements for Graduation

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Ch 1, Gen. Chemistry</td>
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<tr>
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<td>Pm 5, Inorg. Pharmacog</td>
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<tr>
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<tr>
<td>Ch 19, Vol. Anal. †</td>
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<td>Ch 31, Chem. Eq</td>
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<td>Bl 33, El. Botany</td>
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<td>Bl 34, Lab. Botany †</td>
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<tr>
<td>Pm 6, Org. Pharmacog</td>
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**Sophomore Year**

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<th>Subject</th>
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<td>Pm 3, Lab. Pharmacy †</td>
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<td>Pm 7, Mat. Medica</td>
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<thead>
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<th>Hours</th>
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<td>Ch 8, Org. Chem</td>
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<td>Ch 21, Tox., etc., †</td>
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<td>Pm 4, Pharmacy</td>
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<td>Pm 9, Pharm. Read. †</td>
<td>1½</td>
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<tr>
<td>Pm 10, Lab. Pharm. †</td>
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<tr>
<td>Pm 11, Prescriptions</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Bl 17, Bacteriol. †</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>20½</strong></td>
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</tbody>
</table>

Students who complete this course in a satisfactory manner receive the degree of Pharmaceutical Chemist.
The University of Maine

COLLEGE OF LAW

FACULTY OF INSTRUCTION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.
President of the University

WILLIAM EMANUEL WALZ, M. A., LL. B.
Dean, and Professor of Law

* ALLEN ELLINGTON ROGERS, M. A.
Professor of Constitutional Law

EDGAR MYRICK SIMPSON, B. A.
Assistant Professor of Real Property and Corporations

BERTRAM LEIGH FLETCHER, LL. B.
Instructor in Negotiable Paper

GEORGE HENRY WORSTER, LL. M.
Instructor in Sales and Wills

BARTLETT BROOKS, B. A., LL. B.
Instructor in Contracts

FOREST JOHN MARTIN, LL. B.
Resident Lecturer on Common Law Pleading and Maine Practice

HUGO CLARK, C. E.
Resident Lecturer on Equity Pleading and Practice

CHARLES HAMLIN, M. A.
Lecturer on Bankruptcy and Federal Procedure

LUCILIUS ALONSO EMERY, M. A., LL. D.
Lecturer on Roman Law and Probate Law

LOUIS CARVER SOUTHARD, LL. D.
Lecturer on Medico-Legal Relations

RALPH KNEELAND JONES, B. S.
Librarian

GENERAL INFORMATION

The College of Law was opened to students in 1898. It will occupy by the beginning of 1908 the entire sixth story of 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

* Absent on leave.
sessions of the Municipal Court. The law library contains about 3,000 volumes, including the reports 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 Encyclopædias, and a considerable number of text-books.

ADMISSION

Graduates of any college or satisfactory preparatory school are admitted to the college 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 according to the rules of the Association of American Law Schools, of which association this school is a member. Attention is called to a change made in these rules by the Association of American Law Schools at its meeting at Narragansett Pier, R. I., in August, 1905. The following resolution was then passed:

"Section one of Article VI of the Articles of Association shall be amended so that it will read as follows:

"I. It shall require of all candidates for its degree at the time of their admission to the school the completion of a four years’ high school course, or such a course of preparation as would be accepted for admission to the state university, or to the principal colleges and universities in the state where the law school is located; provided, that this requirement shall not take effect until September, 1907."

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 schools which are members of the Association of American Law Schools, are admitted to classes in this institution 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 otherwise qualified are admitted to advanced standing upon passing a satisfactory examination upon the earlier subjects of the course.

Members of the bar of any state may be admitted to the senior class, without examination, as candidates for the degree of Bachelor of Laws, while graduate students may take one of the two courses leading to the degree of Master of Laws.
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Methods of Instruction

The college 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 college, 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.

The aim and spirit of the college are eminently practical, the purpose being to equip men for the everyday 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 college 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 $70, $23.33 at the beginning of each term, payable in advance. Of this sum $10 is a library charge. 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. 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 and examination at the University, the degree of Master of Laws is granted.

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Attorneys-at-law who have been actively engaged in practice at the bar for not less than five years, and attorneys who hold a college degree and have practised for not less than two years, may, on presentation of a recommendation from one of the justices of the highest court of their state, be also admitted to the course leading to the master's degree.

COURSES OF INSTRUCTION


Lw 2. BANKRUPTCY.—Lectures. Two hours a week. Winter term. General Hamlin.


Lw 5. COMMON LAW PLEADING.—Lectures. Two hours a week. Winter term. Mr. Martin.

Lw 6. COMMON LAW PLEADING.—A continuation of course 5. One hour a week. Spring term. Mr. Martin.

Lw 7. CONFLICT OF LAWS.—Dwyer's Cases. Three hours a week. Spring term. Professor Simpson.

Lw 8. CONSTITUTIONAL LAW.—Boyd's Cases. Two hours a week. Spring term. Mr. Worster.

Lw 9. CONTRACTS.—Keener's Cases on Contracts. Four hours a week. Fall term. Mr. Brooks.


Lw 11. CONTRACTS.—A continuation of course 10. Two hours a week. Spring term. Mr. Brooks.
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Lw 12. Criminal Law.—Beale’s Cases on Criminal Law. *Two hours a week.* Winter term. PROFESSOR SIMPSON.


Lw 14. Damages.—Beale’s Cases on Damages. *Three hours a week.* Winter term. MR. WORSTER.

Lw 15. Domestic Relations.—Smith’s Cases on Persons. *Three hours a week.* Fall term. PROFESSOR SIMPSON.

Lw 16. Equity Jurisprudence.—Bispham on Equity Jurisprudence and Shepard’s Cases on Equity. *Four hours a week.* Fall term. PROFESSOR WALZ.

Lw 17. Equity Jurisprudence.—A continuation of course 16. *Three hours a week.* Winter term. PROFESSOR WALZ.

Lw 18. Equity Pleading.—Lectures. *Two hours a week.* Winter term. MR. CLARK.

Lw 19. Evidence.—Thayer’s Cases. *Four hours a week.* Fall term. PROFESSOR SIMPSON.

Lw 20. Evidence.—A continuation of course 19. *Three hours a week.* Winter term. PROFESSOR SIMPSON.

Lw 21. Evidence.—Lectures. *Number of hours not fixed.* Winter term. MR. ———

Lw 22. Executors and Administrators.—Lectures. *One hour a week.* Spring term. PROFESSOR SIMPSON.

Lw 23. Federal Courts.—Lectures. *One hour a week.* Spring term. PROFESSOR WALZ.

Lw 24. General Review.—Gardner’s Review. *One hour a week.* Fall term. PROFESSOR WALZ.

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Lw 27. History of Law.—Lectures. One hour a week. Fall term. Professor Walz.

Lw 28. Insurance.—Woodruff's Cases. Three hours a week. Spring term. Mr. Worster.

Lw 29. International Law.—Lectures. One hour a week. Fall term. Professor Walz.

Lw 30. Maine Practice.—Lectures. One hour a week. Spring term. Mr. Martin.


Lw 33. Negotiable Paper.—Huffcut's Cases. Two hours a week. Winter term. Mr. Fletcher.

Lw 34. Negotiable Paper.—A continuation of course 33. Three hours a week. Spring term. Mr. Fletcher.

Lw 35. Partnership.—Ames's Cases. Four hours a week. Spring term. Professor Walz.

Lw 36. Private Corporations.—Smith's Cases. Four hours a week. Fall term. Professor Simpson.


Lw 39. Real Property.—Tiedeman on Real Property. Four hours a week. Fall term. Professor Simpson.
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Lw 41. Real Property.—Finch's Cases on the Law of Property in Land. Four hours a week. Spring term. Professor Simpson.

Lw 42. Roman Law.—Lectures. About ten hours. Spring term. Mr. Chief Justice Emery.

Lw 43. Sales.—Burdick's Cases. Two hours a week. Fall term. Mr. Worster.

Lw 44. Sales.—A continuation of course 43. Two hours a week. Winter term. Mr. Worster.

Lw 45. Suretyship.—Ames's Cases. Two hours a week. Fall term. Mr. Worster.

Lw 46. Suretyship.—A continuation of course 45. Two hours a week. Winter term. Mr. Worster.

Lw 47. Torts.—Ames and Smith's Cases. Four hours a week. Fall term. Professor Walz.

Lw 48. Torts.—A continuation of course 47. Three hours a week. Winter term. Professor Walz.

Lw 49. Torts.—A continuation of course 48. Two hours a week. Spring term. Professor Walz.

Lw 50. What to do in Court.—Lectures. About ten hours. Spring term. Mr. Chief Justice Emery.

Lw 51. Wills.—Chaplin's Cases. Three hours a week. Spring term. Mr. Worster.
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THE MAINE AGRICULTURAL EXPERIMENT STATION

FACULTY OF INVESTIGATION

GEORGE EMORY FELLOWS, Ph. D., L. H. D., LL. D.  
President of the University

CHARLES DAYTON WOODS, Sc. D.  
Director

JAMES MONROE BARTLETT, M. S.  
Chemistry

LUCIUS HERBERT MERRILL, B. S.  
Chemistry

FREMONT LINCOLN RUSSELL, B. S., V. S.  
Veterinary Science

GILBERT MOTTIER GOWELL, M. S.  
Poultry Investigations

WARNER JACKSON MORSE, M. S.  
Vegetable Pathology

EDITH MARION PATCH, B. S.  
Entomology

RAYMOND PEARL, Ph. D.  
Biology

FRANK MACY SURFACE, Ph. D.  
Biology

HERMAN HERBERT HANSON, M. S.  
Chemistry

ARTHUR CRAIG WHITTIER, B. S.  
Chemistry

JOANNA CARVER COLCORD, B. S.  
Chemistry

ROYDEN LINDSAY HAMMOND  Seed Analysis and Photography

HENRY ATLEIGH MILLETT  Meteorology

ANNIE MARIE SNOW  Clerk and Stenographer to the Director

BLANCHE FOLSOM POOLER  Stenographer

WALTER ANDERSON  Poultry Investigations

FRANK DELMONT STERRY  Laboratory Assistant

ESTABLISHMENT OF THE STATION

The Maine Fertilizer Control and Agricultural Experiment Station, established by act of the Legislature approved March 3, 1885, began its work in April of that year in quarters furnished by the College. After this Station had existed for two years, Congress passed what is known as the Hatch Act, establishing agricultural experiment stations in every state. This grant was accepted by the Maine Legislature by an Act approved March 16, 1887, which established the Maine Agricultural Experiment Station as a department of the University. The reorganization was effected in June, 1887, but work was not begun until February 16, 1888. In 1906 Congress passed the Adams Act for the further endowment of the stations established under the Hatch Act.

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GOVERNMENT OF THE STATION

By authority of the Trustees the affairs of the Station are considered by the Station Council, (see page 6) composed of the President of the University, three members of the Board of Trustees, the Director of the Station, the heads of the various departments of the Station, the Commissioner of Agriculture, and one member each from the State Pomological Society, the State Grange, and the State Dairyman's Association. The recommendations of the Council are referred to the Trustees for final action. The Director is the executive officer of the Station, and the other members of the staff carry out the lines of research that naturally come under their departments.

INCOME

The income of the Station for 1907-8 is about $35,000; $15,000 of which comes from the Hatch fund; $9,000 from the Adams fund; $5,000 from State appropriations for food, drugs, seed and feeding stuff inspections; about $4,000 from fertilizer inspection fees; $1,000 from the United States Department of Agriculture for co-operative experiments with poultry; and about $1,000 from miscellaneous sources.

THE OBJECT

The purpose of the experiment stations is defined in the Act of Congress establishing them as follows:

"It shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural and artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states or territories."
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The work that the Experiment Station can undertake from the Adams Act fund is more restricted and can "be applied only to paying the necessary expenses of conducting original researches or experiments bearing directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective states and territories."

Any resident of Maine concerned in agriculture has the right to apply to the Station for any assistance that comes within its province.

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described on page 21. The Station is well equipped in laboratories and apparatus, particularly in the lines of chemical, entomological, horticultural, pomological, vegetable pathological, and poultry investigations. Its poultry plant is probably the most complete of that of any experiment station in the country. It has extensive collections illustrating the botany and entomology of the State. It has a library of about 3,000 volumes, chiefly agricultural and biological journals, and publications of the various experiment stations.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroughly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, orchard and field experiments, poultry investigations, and entomological research. Some of these are in co-operation with bureaus of the United States Department of Agriculture. Field experiments with crops and orchards are carried on, in the parts of the State where the crop in question is a leading industry, on private land in co-operation with the owners.

INSPECTIONS

The inspection of food and drugs, the inspection of fertilizers, the inspection of concentrated commercial feeding stuffs, the inspection of agricultural seeds, and the testing of the graduated glassware 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.
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The cost of the fertilizer inspection is borne by a brand tax, that of the feeding stuff, food and drugs, and seed inspections by a State appropriation, and that of chemical glassware by a charge for calibration.

DISSEMINATION OF INFORMATION

The Station publishes the account of its work in bulletin form. The bulletins for a year form a volume of about 250 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.

Newspaper bulletins on special topics are published from time to time as occasion demands. These are very generally printed by the press of the State and the agricultural papers of the country.
The Commencement exercises of 1907 were as follows:

Sunday, June 9: Baccalaureate Address, by Professor Alfred W. Anthony, of Bates College.

Monday, June 10: University Convocation, including reports of departments and student enterprises, and the awarding of prizes; Class Day exercises; President's Reception.

Tuesday, June 11: Receptions by the various fraternities; Alumni Luncheon; Alumnae Luncheon; Phi Kappa Phi Initiation; Phi Kappa Phi address, by Professor John Graham Brooks of Harvard University.

Wednesday, June 12: Commencement Exercises; Commencement Dinner; Business Meeting of the Alumni Association; Commencement Ball.

DEGREES CONFERRED

COLLEGE OF AGRICULTURE

Alton Arthur Austin, B. S. in Agriculture .................... Ridlonville
Sidney Morse Bird, 2nd, B. S. in Agriculture ............... Rockland
Caleb Edgar Slocum Burns, B. S. in Agriculture .............. Fort Fairfield
Fred Stoddard Neville Erskine, B. S. in Agriculture .... East Boston, Mass.
Herbert Henry Green, B. S. in Agriculture .................. Spencer, Mass.
William Freeman Schoppe, B. S. in Agriculture ............ West Auburn
Richard Foster Talbot, B. S. in Agriculture ................. Andover

COLLEGE OF ARTS AND SCIENCES

Edith Nora Aiken, B. A. (Latin) ............................... Brewer
William Wesley Bannister Alexander, B. S. (Chemistry) ... Everett, Mass.
Marion Balentine, B. A. (Mathematics) ......................... Orono
John Holmes Burleigh, B. S. (English) ....................... South Berwick
Harold Milton Ellis, B. A. (English) .......................... Hingham, Mass.
James Patrick Vincent Fagan, B. S. (Chemistry) ............ Old Town
Carlotta Nathaniel Garland, B. A. (Philosophy) ............. Bar Harbor
Joe Kinsman Goodrich, B. S. (Economics) ..................... Skowhegan
George Parlin Goodwin, B. S. (Economics) .................... Skowhegan
William Dickson Hall, B. S. (Germanic Languages) ....... Rockland
Guy Edwin Hayward, B. A. (Germanic Languages) .......... Winthrop
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Alden E. Hodgkins, B. S. (Mathematics) .......... Damariscotta Mills
Mildred Charlotte Mansfield, B. A. (Latin) .......... Orono
Robie Lawton Mitchell, B. A. (Economics) .......... West Newfield
Warren Morse, B. A. (Philosophy) [S. T. B., Yale, 1899] ...... Brewer
Deane Whittier Rollins, B. A. (Economics) .......... Farmington Falls
Edith Mabel Tate, B. S. (English) ................. East Corinth
Arnold Washington Totman, B. S. (Economics) .......... Fairfield

College of Pharmacy

Rex Carlton Gellerson, B. S. ......... Fort Fairfield
Arthur Nathaniel Beal, Ph. C. ......... Lisbon Falls
Carroll Curtis Butterfield, Ph. C. .......... Dover
Thomas Miles Findlen, Ph. C. .............. Caribou
Harry Colburn Riddle, Ph. C. ............... Monson
William Houston Saunders, Ph. C. .......... Deer Isle
Frank Manly White, Ph. C. ............... Vinalhaven

College of Technology

Francis Osgood Alton, B. S. in Electrical Engineering ...... Lynn, Mass.
Arad Thompson Barrows, B. S. in Civil Engineering ............ Burleigh
Lucius Dwelley Barrows, B. S. in Civil Engineering .......... Foxcroft
John Thaxter Bates, B. S. in Mechanical Engineering .......... Calais
Perry Ashley Bean, B. S. in Civil Engineering .......... Albany
Benjamin Erwin Brann, B. S. in Civil Engineering .......... Waterville
Elwin Dresser Brawn, B. S. in Mechanical Engineering .......... Dexter
Amon Benjamin Brown, B. S. in Civil Engineering .......... Camden
Arno Burr Cayting, B. S. in Forestry .......... Brewer
Robert Edmund Clayton, B. S. in Chemistry .......... Bangor
Roy Selwin Coffin, B. S. in Forestry .......... Bangor
Bennett Robert Connell, B. S. in Electrical Engineering .......... Houlton
Elmer Wallace Cummings, B. S. in Civil Engineering .......... Paris
Charles Eugene Davis, B. S. in Civil Engineering .......... Bridgton
Rosmar Styer Devereux, B. S. in Civil Engineering .......... Castine
Edward James Druey, B. S. in Chemistry .......... Augusta
Joseph Galland, B. S. in Civil Engineering .......... Biddeford
Roy Gilbert Hamlin, B. S. in Electrical Engineering .......... Gorham, N. H.
Edward Thomas Harlow, B. S. in Civil Engineering .......... South Brewer
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Lincoln Hall Hodgkins, B. S. in Civil Engineering................Bunker Hill
Franklin Pratt Holbrook, B. S. in Civil Engineering..............Brooks
Elmer Guy Hooper, B. S. in Civil Engineering....................West Lynn, Mass.
Fred Pote Hosmer, B. S. in Chemistry..................................Rockland
Erwin Howard Hussey, B. S. in Civil Engineering..................Guilford
Wilbur Owen Hutchins, B. S. in Civil Engineering...............Orland
Ernest LaRoy Judkins, B. S. in Civil Engineering.................Skowhegan
Horton Wilmot Keirstead, B. S. in Civil Engineering..............Oakland
Ernest Howard Knowlton, B. S. in Electrical Engineering.........Pembroke
Emerson Peavy Lambe, B. S. in Electrical Engineering.............Calais
Reginald Robert Lambe, B. S. in Mechanical Engineering.........Calais
Ernest Listerness, B. S. in Civil Engineering.....................North New Portland
Karl MacDonald, B. S. in Mechanical Engineering...............Belfast
Herman Ellis McKenzie, B. S. in Mechanical Engineering...........West Jonesport
Frank Everett Maddocks, B. S. in Civil Engineering..............Bluehill
Thomas Angelo Malloy, B. S. in Civil Engineering...............Lewiston
Charles Henry Martin, B. S. in Civil Engineering...............Fort Fairfield
Joseph Clarence Matthieu, B. S. in Electrical Engineering.....Farmington
Joseph Farrington Merrill, B. S. in Chemistry......................Auburn
Max Gibson Newman, B. S. in Electrical Engineering.............Fryeburg
Herbert Lewis Nickels, B. S. in Civil Engineering...............Cherryfield
Sidney Baxter Orne, B. S. in Mechanical Engineering........Boothbay Harbor
Harry Ellsworth Packard, B. S. in Civil Engineering............East Winthrop
Alcot Johnson Pennell, B. S. in Electrical Engineering........Melrose Highlands, Mass.
Tedcastle Bigelow Perry, B. S. in Electrical Engineering......Island Falls
Earle Walter Philbrook, B. S. in Civil Engineering...............Milan, N. H.
Stephen Franklin Pierce, B. S. in Civil Engineering..............Windsorville
Heber Penn Purington, B. S. in Civil Engineering................Jay
Raymond Alton Quint, B. S. in Electrical Engineering.........North Berwick
Carroll Arthur Read, B. S. in Electrical Engineering............Stillwater
Lowell Jacob Reed, B. S. in Electrical Engineering..............Berlin, N. H.
Reginald Ridge, B. S. in Civil Engineering........................Portland
Albert Prentiss Rounds, B. S. in Civil Engineering..............Bridgton
Walter James St. Onge, B. S. in Electrical Engineering.........Dover
Arthur Haskell Sampson, B. S. in Chemistry.......................Gorham
Everett Hallday Stetson, B. S. in Civil Engineering..............Auburn
Howard Carlton Stetson, B. S. in Civil Engineering..............Auburn
Albert William Stevens, B. S. in Electrical Engineering.......Belfast
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William Elmer Stone, B. S. in Mechanical Engineering...South Brewer
Porter LaForrest Swift, B. S. in Mechanical Engineering......Norway
Charles Bucknam Tebbets, B. S. in Civil Engineering..........Auburn
Ernest Leroy Toner, B. S. in Forestry..............................Auburn
Willis Flye Washburn, B. S. in Chemistry..........................China
Benjamin Franklin Williams, B. S. in Civil Engineering..North Islesboro
Elmer Josiah Wilson, B. S. in Electrical Engineering.......Lynn, Mass
Jesse Davis Wilson, B. S. in Civil Engineering,
   (B. A., Bowdoin College, 1904) Brunswick
Lester Clyde Witham, B. S. in Civil Engineering.............North Anson
Abel Percival Wyman, B. S. in Civil Engineering.............Skowhegan
Verne Jerome York, B. S. in Electrical Engineering...........Bangor

College of Law

Bernard Archibald, LL. B. (B. A. Bowdoin College, 1904).....Houlton
Harry Edgar Bangs, LL. B...........................................Freedom
John Buckley, LL. B................................................Stafford Springs, Conn.
Jerome Borden Clark, LL. B..........................West Gouldsboro
Robert William DeWolfe, LL. B..................................Portland
John Joseph Kecgan, LL. B...................................Lubec
Edward Roy Monroe, LL. B..........................Portland
John Franklin Moody, Jr., LL. B. (B. A., Colby College, 1900)Auburn
Lawrence Swift Perry, LL. B..........................New Bedford, Mass.

Advanced Degrees

Master of Arts

Florence Balentine, B. A., 1905 (Biology)......................Orono
Henry Kingman Dow, B. A., 1903 (Germanic Languages)...Mercer, Pa.

Master of Science

Edward Robie Berry, B. S., 1904 (Chemistry).............Malden, Mass.

Master of Laws

LeRoy Rowell Folsom, B. S., 1895............................Norridgewock

Civil Engineer

Percival Ray Mosher, B. S., 1902 .........................Memphis, Tenn.
Harold Vose Sheahan, B. S., 1903 ......................Newman, N. Y.
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ELECTRICAL ENGINEER

Fred Merrill Davis, B. S., 1901.................................Chicago, Ill.

PRIZES AWARDED

The various prizes were awarded last year as follows:
The Kidder Scholarship, to Warren Alfred Carter, Nobleboro.
The Western Alumni Association Scholarship, to Vaughan Russell Chadbourne, Mattawamkeag.
The New York Alumni Association Scholarship, to George Roy Sweetser, Hampden.
The Boston Alumni Association Scholarship, to Perley Fiske Skofield, Houlton.
The Junior Exhibition Prize, to Cecil Sumner French, Kingfield.
The Sophomore Declamation Prize, to George Frank Barron, Norway.
The Franklin Danforth Prize, to Richard Foster Talbot, Andover.
The Walter Balentine Prize, to Perley Fiske Skofield, Houlton.
The Pittsburg Alumni Association Scholarship, to Cecil Sumner French, Kingfield.
The Maine Dairymen's Association Prizes, to Walter Arthur Cook, Milton, Mass., first; Albert Chester Colley, Denmark, second; Frederick Granville Comins, Brooklyn, N. Y., third.
The L. C. Bateman, H. E. Cook, and George Aiken Prizes, to Caleb Edgar Slocum Burns, Fort Fairfield, first; Perley Fiske Skofield, Houlton, second; Sidney Morse Bird, 2nd, Rockland, third.
The Honorable Z. A. Gilbert Prize, to Alfred Searles Cook, Presque Isle, first; George Phillips Fogg, Hull's Cove, second.
The Honorable A. W. Gilman Prize, to Clarence R. Leland, Mechanic Falls, first; Alton Arthur Austin, Ridlonville, second; Albert Chester Colley, Denmark, third.
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APPOINTMENTS

Speakers at the Junior Exhibition, June, 1907
Chester A. Brownell, Newport, R. I.; Elizabeth R. Estabrooke, Orono; Raymond Fellows, Bucksport; Cecil S. French, Kingfield; Bell C. Harris, Sherman Mills; Stacy C. Lanpher, Sebec; Perley F. Skofield, Houlton; Earle N. Vickery, Pittsfield.

Speakers at the Sophomore Prize Declamation Contest, December, 1906
George Frank Barron, Norway; Florence Polleys Chase, Baring; Philbur Leroy Craigin, Woodfords; Walter Lee Emerson, Orono; Edmund Bernard Keating, Salem, Mass.; James Grindle Scales, Guilford; Helen Farwell Steward, Skowhegan.

Members of the Phi Kappa Phi

Seniors Receiving General Honors

From the College of Law
Lawrence Swift Perry, New Bedford, Mass.
The University of Maine

Honorable Mention in the College of Law
Jerome Borden Clark, West Gouldsboro.
Edward Roy Monroe, Portland.

Certificates in the School Course in Agriculture
Albert Chester Colley, Denmark.
Malcolm Montgomery Soule, South Freeport.

Reported to the Secretary of War for Publication in the Next United States Army Register as the Most Distinguished Students in the Military Department
Fred Stoddard Neville Erskine, East Boston, Mass.
Sidney Morse Bird, 2nd, Rockland.
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CATALOG OF STUDENTS


GRADUATE STUDENTS

Alexander, William Wesley Bannister, B. S., Ch.
University of Maine, 1907

Brockie, John Meikle, B. A., Pl.
University of Maine, 1906

Colcord, Joanna Carver, B. S., Ch.
University of Maine, 1906

Dinsmore, Ernest LeRoy, B. A., Pl.
University of Maine, 1905

Edwards, Dayton James, B.S., Bl.
University of Maine, 1906

Ellis, Harold Milton, B. A., Eh.
University of Maine, 1907

Galland, Joseph, B. S., Rm.
University of Maine, 1906

Garland, Carlotte Nathaniel, B. A., Pl.
University of Maine, 1907

Godfrey, Ethel, B. L., Eh.
Smith College, 1903

Graham, Hugh F., B. A.
Bowdoin College, 1898

Jones, Gertrude May, B. S., Bl.
University of Maine, 1906

Moots, Elmer Earl, B. C. E., Ms.
Highland Park College, 1906

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Morse, Warren, B. A., Eh.
University of Maine, 1907

Parker, Edward Alton, B. S., Ed.
University of Maine, 1904

Pol, Frances May, B. A., Eh.
Smith College, 1906

Reed, Lowell Jacob, B. S., Ee.
University of Maine, 1907

Ropes, Ellen Marian, B. A., Gm.
Bryn Mawr College, 1907

Simmons, Fred'k Johnson, B.A., Hy.
University of Maine, 1906

Smith, Nathan Rideout, B. A., Pl.
Bates College, 1905

Stevens, Albert William, B. S., Ee.
University of Maine, 1907

Whittier, Arthur Craig, B. S., Ch.
University of Maine, 1905

Bean, Anna Coffin, Ch.

Bean, Chester Howe, Ce.

Beedle, Arthur Lawrence, Ee.

Blair, Arthur Adolphus, B.D., Tufts College, 1895, Pl.

Boyle, Claude, Ch.

Brown, Sarah Ellen, Gk.

Brownell, Chester Arthur, Ce.

Chase, Daniel, Ms.

Cobb, William Alfred, Ce.

Coleman, Everett Clinton, Ch.

Collins, Bernard Ira, Ce.

Cummings, Robert Lincoln, Ee.

Dixon, Leon Snell, Me.

Dow, Owen Oscar, Ec.

Draper, Clifford Lester, Ee.

Durgin, Albert Guy, Ch.

Emery, Francis Philip, Me.

Estabrooke, Elizabeth Read, Eh.

Farnsworth, Alice Belle, Gm.

Farnsworth, James Pitt, Ee.

S E N I O R S

Bean, Anna Coffin, Ch.

Bean, Chester Howe, Ce.

Beedle, Arthur Lawrence, Ee.

Blair, Arthur Adolphus, B.D., Tufts College, 1895, Pl.

Boyle, Claude, Ch.

Brown, Sarah Ellen, Gk.

Brownell, Chester Arthur, Ce.

Chase, Daniel, Ms.

Cobb, William Alfred, Ce.

Coleman, Everett Clinton, Ch.

Collins, Bernard Ira, Ce.

Cummings, Robert Lincoln, Ee.

Dixon, Leon Snell, Me.

Dow, Owen Oscar, Ec.

Draper, Clifford Lester, Ee.

Durgin, Albert Guy, Ch.

Emery, Francis Philip, Me.

Estabrooke, Elizabeth Read, Eh.

Farnsworth, Alice Belle, Gm.

Farnsworth, James Pitt, Ee.

Waltham, Mass., Mt. Vernon House
Bethel
South Gardiner

Old Town

Dover

Old Town

Newport, R. I.

Baring

Auburn

Boston, Mass.

Haverhill, Mass.

Gorham

Orono

Hiram

Stoneham, Mass.

Orono

Eastport

Orono

West Sullivan

Milbridge

Brewer

Skowhegan

Bangor

Nashua, N. H.

Bangor

Charleston

Ware, Mass.

Belfast

B 0 II House

Vernon House

301 Oak Hall

College St.

Old Town

A T Ω House

Dover

Old Town

Mt. Vernon House

Newport, R. I.

Σ A E House

Baring

Φ Κ Σ House

Auburn

Ω Λ T House

Boston, Mass.

309 Oak Hall

Haverhill, Mass.

Φ Γ Δ House

Gorham

College St.

Orono

Φ Γ Δ House

Hiram

Θ E House

Stoneham, Mass.

Middle St.

Orono

Σ A E House

Eastport

Main St.

Orono

Mill St.

West Sullivan

Θ E House

Milbridge

176
The University of Maine

Fellows, Raymond, Ec.
Fessenden, Thomas Whitmore, Ph. B., Taylor University, Pl.
Fisher, Roy Haynes, Ce.
Fogler, Ben Baker, Me.
Foster, Robert Mower, Ee.
French, Cecil Sumner, Ee.
Gannett, James Adrian, Ee.
Hanscom, Arthur Snow, Ce.
Hardison, Grover Merrill, Ce.
Harris, Bell Curry, Gm.
Hill, William Andrew, Ce.
Hilliard, Stanley Tyng, Me.
Hopkins, George Jesse, Me.
Irish, Joshua Swett, Ag.
Jacobs, Joseph, Ee.
Johnson, Charles Arthur, Ce.
Kendrigan, John Thompson, Ce.
Knight, George Raymond, Ee.
Lancaster, Howard Augustus, Ce.
Lanpher, Stacy Clifford, Gm.
Libby, Paul, Ce.
Locke, Samuel Barry, Fy.
Lord, Leslie Roland, Ee.
McNamara, William Stephen, Rm.
Matheas, Fred Walter, Ce.
Merrill, Anne Margaret, Rm.
Meserve, Claude Pitman, Me.
Milliken, Earle Linwood, Ee.
Miner, Henry LeRoy, Ch.
Morrison, James Joseph, Ee.
Morton, Fred Conistine, Ee.
Perkins, Howard Lewis, Ee.
Potter, Robert Eaton, Ce.
Robinson, Philip Increase, Ee.
Seamoon, Percy Ralph, Ee.
Skolfield, Perley Fiske, Ag.
Smith, Raymond Judson, Fy.
Steward, Robert Kent, Ce.
Sturtevant, Merle Alton, Ps.
Sturtevant, Walter Linwood, Ch.
Thomas, Searle Fowler, Ee.

Bucksport
Bangor 259 Union St., Bangor
Pepperell, Mass.
Skowhegan
Lisbon
Kingfield
Yarmouth
Leeds Junction
Caribou
Sherman Mills
Winterport
Old Town
Bath
Gorham
West Boylston, Mass.
Berlin Mills, N. H.
Rockland, Mass.
North Waterford
Old Town
Sebec
Somersworth, N. H.
West Paris
Paugnano, Conn.
Millville, Mass.
Bangor
Auburn
North Bridgton
Westbrook
Haverhill, Mass.
Pembroke
South Windham,
Augusta
Bath
Waterville
Roxbury, Mass.
Houlton
Skowhegan
Skowhegan
Hebron
Bangor
Lincoln

Φ Γ Δ House
Φ Κ Σ House
Φ Κ Σ House
Φ Γ Δ House
Ω Λ Τ House
Old Town
Φ Γ Δ House
Φ Γ Δ House
Β Θ Π House
207 Oak Hall
302 Oak Hall
23 Peters St.
Κ Σ House
Θ Χ House
Θ Χ House
205 Oak Hall
207 Oak Hall
203 Oak Hall
1 College St.
Σ Χ House
Φ Κ Σ House
Θ Χ House
Campus
Φ Γ Δ House
Φ Γ Δ House
Σ Λ E House
Β Θ Π House
Φ Κ Σ House
The University of Maine

Trask, Warren Dudley, Ce. 
Vickery, Earle Nelson, Ee. 
Wakefield, Sylvia Serena, Gm. 
Weston, Clarence McLellan, Ce. 
Wilbur, Walter Edmund, Ee. 
Wood, Louis Carl, Ce. 

Augusta K Σ House
Pittsfield Σ X House
Saco Mt. Vernon House
Madison Φ Κ Σ House
Pembroke Park St.
Berlin, N. H. Σ X House

JUNIORS

Barber, Clarence Wallace, Ag. 
Bennet, DaCosta FitzMaurice, Ec. 
Black, William Milgate, Ce. 
Bowman, Harold Melville, Me. 
Brann, Bertrand French, Ch. 
Brown, Wallace Francis, Ce. 
Cadwallader, Jesse Morris, Ee. 
Carlisle, George Thomas, Jr., Fy. 
Carter, Warren Alfred, Ch. 
Chandler, Bernard Albert, Fy. 
Chase, Florence Polleys, Rm. 
Clemons, Samuel Wadsworth, Me. 
Cleveland, Charles Calvin, Ag. 
Conner, Warren Edward, Ce. 
Corson, Preston Llewellyn, Ee. 
Cragin, Philbur Leroy, Ee. 
Cram, Frederick Sutherland, Ce. 
Davis, Cyrus Hersey, Ee. 
Eddy, Harold Frederick, Ee. 
Emerson, Walter Lee, Ce. 
Estey, Chester Arthur, Ee. 
Farrar, Cecil C., Lt. 
Farwell, Howard Lovering, Me. 
Finnigan, Edward Joseph, Ce. 
Fogler, William Andrews, Ee. 
French, Guy Clifton, Ce. 
Fulton, Charles Melville, Ce. 
Gardner, Edward Earle, Pm. 
Gerrity, Joe Warren, Ec. 
Gilbert, William Gilbert, Me. 
Haggett, Harold Daniel, Ce. 
Hall, Earle Wilmer, Ee. 

Woodfords Park St. 
Lubec Θ E House 
Belfast 103 Oak Hall 
Salmon Falls, N. H. 311 Oak Hall 
Bangor Bangor 
Yarmouth Θ X House 
Lindenhurst, N. Y. Crosby St. 
North Edgecomb, Main St. 
Nobleboro, Φ Κ Σ House 
New Gloucester, Φ Κ Σ House 
Baring Mt. Vernon House 
Hiram A T Ω House 
Skowhegan 18 Main St. 
Auburn Φ Κ Σ House 
Wilton Main St. 
Woodfords Θ X House 
Brunswick Σ Α E House 
Woodfords Park St. 
Bangor Bangor 
Lewiston B Θ II House 
Lisbon Falls 35 Mill St. 
Lynn, Mass. Θ E House 
Guilford Old Town 
Dorchester, Mass. Φ Γ Δ House 
Bangor Ω Δ T House 
West Rockport Σ X House 
Skowhegan 109 Oak Hall 
Effingham Falls, N. H. Θ E House 
East Machias Σ Α Ε House 
Bangor K Σ House 
So. Glastonbury, Ct. Σ Α Ε House 
Bath Ω Δ T House 
Farmington A T Ω House
The University of Maine

Ham, Philip Winthrop, Ce.
Harmon, Ralph Chase, Ee.
Harvey, Florence Evelyn, Rm.
Harvey, Walter Ora, Me.
Harvey, Willis Lake, Ee.
Henry, Ralph Morton, Ee.
Higgins, Harrison Parker, Me.
Holton, Carl Russell, Ce.
Hutchinson, Arthur Nash, Ch.
Jackson, Ralph Lysander, Ce.
Jewett, John Nelson, Ce.
Johnson, Howard Rich, Ee.
Keating, Edmund Bernard, Ce.
Keating, Joseph Sylvester, Ec.
Keith, Ballard Freeze, Lt.
Kimball, Winfield Alfred, Fy.
Kinghorn, Charles Wesley, Ee.
Knight, Frederick Daniel, Ee.
Knight, Mattie Grover, Bl.
Littlefield, Joseph Philip, Ee.
Lockyer, Scott Sylvester, Fy.
Lynch, John Philip, Pm.
McArthur, Chase, Gm.
Mason, Jesse Ham, Ch.
Mayo, Norman Haskell, Ce.
Merriman, Merle Eli, Me.
Miller, Harold Redmere, Ee.
Mooney, Percy Patrick, Ee.
Moor, Leon Russell, Ee.
Moore, Irving Hartwell, Ee.
Morgan, Edwin Randolph, Ms.
Morrell, Harry Edwin, Ce.
Morrison, Robley Howe, Ch.
Morton, Edward Watts, Ag.
Nash, Henry Leighton, Ee.
Nauman, George Valentine, Ec.
Neal, Arthur Francisco, Ce.
Osgood, William Thompson, Fy.
Paine, Charles Brooks, Ce.
Parker, Horace Albion, Ce.
Patterson, Alfred Bassett, Me.
Penney, Paul Stinchfield, Ce.

Livermore Falls
Woodfords
Orono
Kenduskeag
Orono
Cumberland Mills
Somerville, Mass.
Boothbay Harbor
Cherryfield
Jefferson
Cherryfield
South Portland
Salem, Mass.
Red Beach
Old Town
Norway
Yarmouthville
Limerick
Deer Isle
Ogunquit
Eustis
South Berwick
Milltown
Beverly, Mass.
Bluehill
Portland
South Berwick
Bangor
Ellsworth
Readfield
Sangerville
Lewiston
Runford Falls
Kennebunk
Cherryfield
Portland
North Berwick
Garland
Eastport
Livermore Falls
Winslow
Augusta

Φ Κ Σ House
Σ Χ House
Main St.
Θ E House
Main St.
308 Oak Hall
Σ A E House
Ω A T House
Σ Χ House
Σ A E House
Σ Χ House
307 Oak Hall
Θ X House
54 No. Main St.
Φ Γ Δ House
Φ Κ Σ House
Mill St.
Φ Κ Σ House
Mt. Vernon House
A T Ω House
A T Ω House
A T Ω House
Park St.
Σ Χ House
Σ Χ House
Φ Κ Σ House
311 Oak Hall
Bangor
303 Oak Hall
B Θ Π House
Θ X House
312 Oak Hall
Σ A E House
Σ A E House
Ω A T House
B Θ Π II House
Myrtle St.
Main St.
301 Oak Hall
307 Oak Hall
Park St.

179
Pettegrew, Herbert Tracy, Ce.
Pike, Lewis Freeman, Fy.
Plumly, Clinton Alley, Ce.
Pray, Elmer Onsville, Ce.
Randall, James William, Ce.
Ray, Vinton Royal, Ce.
Rich, Harold Arthur, Me.
Richardson, Frank Cummings, Ce.
Richardson, Irene Clara, Rm.
Roberts, Benjamin Lewis, Fy.
Robinson, Reginald Elton, Me.
Rogers, Frederick Drummond, Me.
Rollins, Kenneth Albert, Ec.
Scales, James Grindle, Ch.
Shatney, Thomas Franklin, Fy.
Shaw, Christine Myrtle, Lt.
Shaw, Cora Mae, Ms.
Simmons, Francis Eaton, Me.
Smith, Francis Eaton, Me.
Smith, Dexter Southworth Johnson, Ec.
Smith, Frank Folsom, Ce.
Smith, Herman Brackett, Me.
Smith, Harry Woodbury, Ag.
Smith, Wilbur Olin, Ec.
Southwick, Everett Frost, Ag.
Sutton, Harry Edward, Hy.
Sweetser, George Roy, Ec.
Thomas, Deane Stanley, Ec.
Torrey, Guy Ellicott, Ce.
Towle, Elton LaForrest, Me.
Tripp, James Woodbury, Pl.
Turner, Richard Clinton, Ag.
Wescott, Thurman Cary, Ce.
White, Harry Alfred, Ce.
Wildes, Gordon Lunt, Ce.
Williams, Guy Herbert, Ce.
Woodbury, Dwight Augustus, Ms.

SOPHOMORES

Alton, Edwin Samuel, Ec.
Ames, Leroy Winfield, Fy.

East Machias
Milton, N. H.
Lincoln
Kittery
Freeport
Sabattus
Bangor
Jefferson
Old Town
Bangor
Oxford
Richmond
Farmington Falls
Guilford
Orono
Orono
Orono
Rockland
Jonesport
Bangor
Rumford Falls
Saco
Sangerville
Peabody, Mass.
Peabody, Mass.
Orono,
Hampden,
Yarmouthville
Deer Isle
Portland
Orrington
Portland
Patten
Lynn, Mass.
Skowhegan
Manchester, N. H.
Beverly, Mass.

Ω Δ T House
K Σ House
Φ K Σ House
A T Ω House
Ω Δ T House
Θ E House
B Θ Π House
Σ Λ E House
Old Town
Θ E House
Ω Δ T House
Σ X House
Φ Γ Δ House
Φ Γ Δ House
28 Pine St.
Park St.
Park St.
B Θ Π House
Park St.

Σ Λ E House
Σ Λ E House
Φ K Σ House
Θ X House
Myrtle St.
Myrtle St.
Bennoch St.
Commons
Θ E House
K Σ House
Φ Γ Δ House
Commons
College St.
K Σ House
K Σ House
K Σ House
Θ X House
Σ X House

Θ E House
Bangor
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
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<tbody>
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<td>Andrews, Wales Henry, Me.</td>
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<td>Blanchard, Ralph Childs, Ee.</td>
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<td>Carle, Harry Pennell, Ce.</td>
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<td>Chadbourne, Vaughn Russell, Ee.</td>
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<td>Collins, John Lambert, Ee.</td>
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<td>Corning, Grover Trites, Ec.</td>
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<td>Cruickshank, Robert Bacon, Fy.</td>
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<td>Danforth, Hugh Nagles, Me.</td>
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<td>Skowhegan</td>
<td>18 Main St.</td>
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<td>Middleboro, Mass.</td>
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<td>Utica, N. Y.</td>
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<td>Boston, Mass.</td>
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<td>Mattawamkeag</td>
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<td>Yarmouthville</td>
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<td>Orono</td>
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<td>South Portland</td>
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<td>Gardiner, R. F. D. 15</td>
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<td>Woodfords</td>
<td>54 North Main St.</td>
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<td>Lynn, Mass.</td>
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<td>367 Essex St.</td>
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<tr>
<td>Bangor</td>
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<td>B Θ Π House</td>
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<tr>
<td>Akron, Ohio</td>
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<td>Ω Λ T House</td>
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<tr>
<td>Vanceboro</td>
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<td>A T Ω House</td>
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<tr>
<td>Augusta</td>
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<td>Myrtle St.</td>
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<tr>
<td>Brooks</td>
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<td>Middle St.</td>
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<tr>
<td>Bridgetown, N. S.</td>
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<tr>
<td>North Islesboro</td>
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<td>Ω X House</td>
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<td>Σ X House</td>
</tr>
<tr>
<td>Calais</td>
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</tr>
</tbody>
</table>
The University of Maine

Dyer, John Raymond, Ce.
Eaton, James Murchie, Ee.
Everett, Jasper Willard, Ee.
Fassett, Malcolm Edward, Ce.
Fox, Kent Richard, Ch.
Gardner, Albert Kinsman, Ag.
Gardner, Leroy Whittier, Fy.
Gifford, George Endicott, Ch.
Goodrich, George Percy, Ee.
Goodrich, Merton Taylor, Ms.
Goodwin, Alexander Willard, Ce.
Gould, Ralph Wadlin, Ee.
Graham, Charles Liguori, Ms.
Greenwood, Ralph Harrison, Ee.
Hall, Clifton Allison, Ee.
Harmon, W. Warren, Ec.
Howard, Francis Eaton, Ce.
Hayes, Howard Wadlin, Ag.
Hicks, Weston Milliken, Ce.
Hobbs, Ralph Everett, Ee.
Holmes, Ralph Maynard, Ee.
Huntington, Frances Willard, Hy.
Jellison, Rupert A., Ch.
Johnson, Chester Cleveland, Ce.
Jones, Roy Chandler, Ee.
Jordan, Edith Luella, Rm.
Jordan, George King, Me.
Jordan, Harvey Herbert, Ce.
Keen, Lewis Albert, Ee.
Ketchum, Charles Clayton, Ce.
Kinney, Fay Delancy, Me.
Kyes, Herman Winslow, Ee.
Lamb, Ernest, Ec.
Leary, Arthur Joseph, Ce.
Libby, Albert Edwin, Ce.
Littlefield, Roby Perkins, Ch.
Lowell, Elmer Blaine, Ee.
Maddox, Austin Louis, Ce.
Merriam, Frank Edmund, Me.
Merrill, Demon Emery, Ee.
Merrill, Walter Scott, Ce.
Moore, Arthur Scudder, Ee.

Truro, Mass.
Princeton
Oxford
Portland
Bangor
Rockland
Dennysville
Salem, Mass.
Cornish
Bingham
Vanceboro
Belfast
Brookyn, N. Y.
Presque Isle
Brewer
Old Orchard
Brunswick
Deering
Portland, R. F. D. No. 4
Lynn, Mass.
Ellsworth
Lynn, Mass,
Bar Harbor
Portland
Gardiner
Old Town
Westbrook
Waltham
South Paris
Ashland
Dexter
Ipswich, Mass.
Utica, N. Y.
Somersworth, N. H.
Portland
Ogunquit
West Farmington
Ellsworth
Skowhegan
Alfred
Skowhegan
West Lynn, Mass

104 Oak Hall
Φ Γ Δ House
Θ X House
Φ Γ Δ House
B Θ II House
B Θ II House
Θ X House
Σ Α E House
Mill St.
North Main St.
Θ A T House
Stillwater
107 Oak Hall
109 Oak Hall
Φ K Σ House
Ω A T House
Mt. Vernon House
32 North Main St.
Σ A E House
No. Main St.
2 Bennoch St.
112 Oak Hall
210 Oak Hall
Θ E House
312 Oak Hall
Mt. Vernon House
2 Bennoch St.
Θ X House
2 Bennoch St.
Main St.
The University of Maine

Norton, Raymond Pratt, Ch.
Nucci, James Francis, Ce.
Oak, Allen Edson, Ce.
Owen, Philip Herbert, Me.
Pettey, Franklin William, Bl.
Philbrook, John Neal, Ce.
Phinney, Chester Squire, Rm.
Pickup, Herbert Wilfred, Ce.
Porter, Charles Augustus Cushman, Ce.
Pratt, Charles Oland, Ce.
Redman, Ralph Woodbury, Ag.
Reed, Geneva Alice, Gm.
Reed, Marshall Everett, Fy.
Robinson, John Tyler, Rm.
Rose, Joseph George, Ce.
Royal, Harold Merton, Ee.
Russell, Edward Giddings, Ce.
Sawyer, Frank Sleeper, Ce.
Sawyer, Nathan Howard, Ee.
Schierloh, August Herman Theodore, Gm.
Sevrens, Oliver Fisk, Fy.
Simonton, Philip Downing, Me.
Skolfield, Herbert Nason, Ce.
Smith, Charles French, Ee.
Smith, Frank Folsom, Ce.
Snow, Edward Notley, Ee.
Springer, George Edwin, Ee.
Stickney, Charles Edwin, Me.
Stoddard, Winfred Eugene, Ce.
Stover, Isaac Maxwell, Ee.
Sweetser, Herman Pittee, Ag.
Tomlinson, Nora, Gm.
Tracy, Clarence Curtis, Ce.
Travis, James Irving, Me.
Tucker, Charles Henry, Ce.
Wadsworth, Francis George, Pl.
Wadsworth, George Sabine, Ag.
Wallace, George Alexander, Fy.
Webster, George Albert, Ee.
Wentworth, George Jacobs, Ee.

Patten
Brooklyn, N. Y.
Caribou
Woburn, Mass.
Fall River, Mass.
Woodfords
Pawtucket, R. I.
Ipswich, Mass.

Bangor
Revere, Mass.
Corinna
Oro
Foxbury
Sherman Station
Brooklyn, N. Y.
Homer
Eastport
Sabattus
Cape Elizabeth

Brooklyn, N. Y.
North Woburn, Mass.
Yarmouthville
Brunswick, R.F.D. 2
Skowhegan
Rumford Falls
Skowhegan
Portland
Portland
Guilford
New Brunswick, N. J.
Cumberland Center
Brantford, Ont.
Bridgeport, Conn.
Machiasport
Kittery Depot
Sanford
Portland
Portland
Farmington
Kennebunk Beach

Ω Δ Τ House
107 Oak Hall
B Θ Π House
No. Main St.
Ω Δ Τ House
North Main St.
Θ X House
101 Oak Hall
Φ Κ Σ House
Θ E House
104 Oak Hall
College St.
Θ X House
Main St.
Σ Α Ε House
Θ X House
Θ X House

Brooklyn, N. Y.
North Woburn, Mass.
Yarmouthville
Brunswick, R.F.D. 2
Skowhegan
Rumford Falls
Skowhegan
Portland
Portland
Guilford
New Brunswick, N. J.
Cumberland Center
Brantford, Ont.
Bridgeport, Conn.
Machiasport
Kittery Depot
Sanford
Portland
Portland
Farmington
Kennebunk Beach

Σ Α Ε House
Δ Τ House
Mill St.
Φ Κ Σ House
Φ Γ Δ House
Σ Α Ε House
306 Oak Hall
Θ E House
Φ Γ Δ House
Θ E House
Campus
Θ X House
Main St.
Mill St.
Σ Α Ε House
A T Ω House
A T Ω House
88 Main St.
B Θ Π House
201 Oak Hall
Crosby St.
The University of Maine

Wentworth, William Hiram, Fy.
Wheeler, Stanley Mathews, Fy.
White, Myra Isabel, Ed.
Wiley, Fred Everett, Ee.
Winters, Amos Arthur, Ce.
Woods, Harry Morgan, Me.
Workman, Thurlow Tracy, Ce.
Wright, Harold Williams, Ce.

FRESHMEN

Adams, Alfred Sanford
Atwood, Albert Samuel
Attwood, Stanley Bearce
Averill, Helen Willard
Bailey, Howard Earle
Barker, Jack Sears
Bartow, William Edgar
Bearce, George Dunham
Benjamin, Charles Smith
Bennett, Leslie
Bennett, Lester Latham
Bigney, Edmund Scammon
Blaisdell, Allen Holt
Blaisdell, Guy Marble
Blaisdell, Perl Era
Blanchard, Horace Stanley
Bradeen, Samuel Warren
Brown, Florence Evelyn
Brown, Jennie Christiania
Bruhm, Clyde George
Buck, Raymond Wilbur
Burden, Harry Poole
Burgess, Harold Brainerd
Burke, John Joseph
Buzell, Ralph Waldo
Carlisle, Ralph Harrison
Carr, John Oliver
Casey, Edmund Patrick
Cavanough, Charles Alton
Chapman, George Bunker
Chase, Arthur Clifford

Newport
Phillips
Auburn
Milltown
Westbrook
Calais
Utica, N. Y.
Paris
Farmington
Greenville
Bangor
Farmington
Hallowell
Blanchard
Milo
Old Town
Orono
South Boston Mass.
Monticello
Lynn, Mass.
Rockland
Chelsea, Mass.
Rockport
Patten
Bangor
Milltown
Portland
Augusta
Sheepscott

Somersworth, N. H.
South Paris
Orono
Hartford, Ct.
Waterville
Orono
Sullivan Harbor
Reading, Mass.

Σ X House
Φ K Σ House
Mill St.
Ω X House
K Σ House
Main St.
Ω A T House
Σ X House

Σ X House

Mill St.
Peters St.
Park St.
Mt. Vernon House
Θ X House
Ω A T House
40 North Main St.
B θ II House
Old Town
Φ K Σ House
Park St.
Κ Σ House
Bangor
Peters St.
38 Pine St.
Myrtle St.
Stillwater
Old Town
Park St.
Stillwater
Σ X House
Myrtle St.
Main St.
Mill St.
North Main St.
College St.
Bangor
Penobscot St.
Bennoch St.
Σ A E House

184
The University of Maine

Chenery, Frederick Lincoln, Jr.  Wayne
Clark, Lowell Freeman  Hampden
Cobb, Frank Collins  So. Gardiner
Coombs, David Clifford  Auburn
Cooper, Parker Messer  Jefferson
Cummings, Nathaniel Clifford  Gorham
Davis, Frederick Gordon  West Pownal
Davis, Ralph Cushman  Norridgewock
Davis, Raymond Webber  Auburn
Davis, Walter Francis  Guilford
Day, Letitia Elizabeth  Old Town
Day, Ralph Roscoe  Bangor
Dinsmore, James Leigh  Cornish
Doore, Clarence Freeland  Hallowell
Drew, Laurence Evans  Dover
Dunn, James Whitman  Brunswick
Duran, David Ray  Cumberland Center
Eastman, Henry Harland  Westbrook
Eaton, Arthur Clement  Limerick
*Farwell, Frank Foster, Jr.  Wenham, Mass.
Fenn, Herbert Kenney  Dorchester Ctr., Mass.
Fish, Fred Enoch  Σ X House
Fi'ch, LeRoy Allan  Park St.
Flanagan, John Patrick  Bangor
Folley, Delton Wharff  Sangerville
Geery, Henry Clinton  Park St.
*Geery, Louis Duncan Tallman  Katahdin Iron Works
Gerrish, Charles Samuel  304 Oak Hall
Gerrish, Leo Melville  Katahdin Iron Works
Gifford, George Washington  304 Oak Hall
Gilbert, Annie Hoadley  Kittery Point
Gilpatrick, Claude Hall  Crosby St.
Gooch, Winslow Lamond  Σ A E House
Goodnow, Alden Church  Myrtle St.
*Gould, William Sanford, Jr.  Old Orchard
*Hall, William Scribner  Mt. Vernon House
Hammond, Avery Carleton  Rumford Falls
Harris, Hiram Elmer  Alfred
Hart, Ashton Halsted  Fairhaven, Mass.

2 Bennoch St.  208 Oak Hall
206 Oak Hall  Σ A E House
310 Oak Hall  K Σ House
3 Forest St.  Φ Γ Δ House
Old Town  Old Town
Bangor  Bangor
88 Main St.  310 Oak Hall
203 Oak Hall  Ω Δ Τ House
63 Mill St.  Ω Α Τ House
Bangor  A Τ Ω House

*K in partial standing

185
The University of Maine

Haskell, William Oleson
* Haslem, Howard Giles
Hatch, Harrison Morton
Hayes, Leo Francis
Hebard, William Everett
Henderson, Robert Raymond
Hill, Walter George
Holmes, Oliver Wendell
Hooper, Irvin Frothingham
Hosmer, George Lawrence
Houghton, Thomas Edward
Howe, George Henry, Jr.
Howes, Harry Winslow
Ingersoll, Frederick McCormisky
Ingham, Harold William
Johnson, Walter Hauteville
Jones, Maurice Daniel
Jones, Sidney Morrison
Kavanah, Gladys Emma
Kilburn, Percy Gordon
King, James Putnam
Kingsbury, Forrest Pearl
Kingsley, Ernest Roy
Leavitt, George Clark
LeBaron, ReRoy Morse
Lee, Horace Newton
Leikin, Abraham William
Libby, Arthur Clarence
Lord, George Lester
Loring, Charles Sewall
Luce, Ray Thomas
Lycette, Cecil Leland
McCarthy, Maurice Franklin
* McHale, Martin Joseph
Markle, Bert Christian
Marshall, Robert Clarence
Maxcy, Everett Haseltine
* Merrell, James Raymond
Morrison, Freeland John
Nason, Fred Warner

Westbrook
Bangor
West Groton, Mass.
Southbridge, Mass.
Fiskdale, Mass.
Madison
Bar Harbor
Eastport
West Lynn, Mass.
Rockland
Ft. Fairfield
Caribou
Middleboro, Mass.
Auburn
Haverhill, Mass.
Oakland
Unity
Bangor
Bangor
Ft. Fairfield
Peabody, Mass.
Brewer
Yarmouthville
Northway
West Wareham, Mass.
Greenwood, Mass.
New Britain, Ct.
Scarbororo
South Berwick
Jay
Carmel, R. F. D. No. 2
Houlton
Lewiston
Stoneham, Mass.
Northampton, Mass.
Wellesley, Mass.
Gardiner
Rumford Falls
Haverhill, Mass.

Φ Γ Α House
Bangor
Θ X House
Θ X House
Bennoch St.
Bennoch St.
Θ E House
2 Middle St.
No. Main St.
Λ Τ Ω House
Θ E House
Beach St.
Θ Λ Τ House
Φ Γ Α House
Α Τ Ω House
Θ X House
North Main St.
B Θ Π House
Bangor
Beach St.
Myrtle St.
Brewer
6 Water St.
108 Oak Hall
College St.
College St.
205 Oak Hall
Myrtle St.
53 Mill St.
K Σ House
Bangor
103 Oak Hall
K Σ House
Θ E House
Σ Α E House
Θ X House
Pine St.
Ο Λ Τ House
Σ Α E House
Α Τ Ω House

* In partial standing
The University of Maine

Noyes, Robert Jackman
Oak, Donald Prescott
* Osborne, Atlee Burpee
Parsons, Wallace Emery
Patch, Clifford
Patterson, Ralph Edwin
Peaslee, Dana Newton
Peckham, Wentworth
Perkins, Lewis West
Perkins, Louis Turner
Philbrook, Beulah Frances
Philbrook, Frank William
Phillips, George Alfred
Pinkham, Charles Joseph
* Pinkham, Niles Cassius
Pond, Ralph Benjamin
Prentiss, Mildred Louise
Quinneen, Charles Roger
Rea, Charles Drummond
Reed, Philip Page
Richardson, Arthur Berry
* Robinson, Chauncey Stephen
Rogers, Luther
Russell, Harl Lowell
* Rowe, Charles Winfield
Ryan, Philip Eary
Sargent, Harold Rodolph
Sawtelle, Philip Perry
Scales, Nelson Ned
Scott, Arthur Leon
Shaw, Louis Ethelbert
Shorey, Ralph Oscar
Shute, Clyde Ralph
Sisson, Elmer Allen
Smith, Nelson Ernest
Smith, Russell
Snow, Charles Augustus
Southard, Frank Elwyn
Strout, Philip Stanwood
* Sturtevant, Arthur Leroy

Georgetown, Mass. A T Ω House
Bangor A T Ω House
Ft. Fairfield Beach St.
North Anson B Θ Π House
Bangor Bangor
Bangor
Lynn, Mass. 4 Myrtle St.
Lewiston B Θ Π House
Ogunquit 39 North Main St.
Middleboro, Mass. Θ X House
Sanford Bangor
Greene
Westbrook 312 Oak Hall
Farmington, R.F.D. No. 5 Pine St.
Portland Φ Γ Δ House
Bangor Φ Γ Δ House
Brewer Mt. Vernon House
Chelsea, Mass. Mill St.
Southwest Harbor Penobscot St.
Orono College St.
Rockland B Θ Π House
Portland Φ Γ Δ House
Patten K Σ House
Dexter Myrtle St.
East Oxford 10 Pine St.
Milltown Σ A E House
Melrose, Mass. Θ E House
Augusta 1 Main St.
Guilford Φ Γ Δ House
Portland K Σ House
Orono Mill St.
Foxcroft Stillwater
Belfast 305 Oak Hall
So. Middleboro, Mass. College St.
Peabody, Mass. Myrtle St.
Auburn K Σ House
Milo, R. F. D. No. 2 Bangor
Lewiston K Σ House
South Portland Θ E House
Milo Park St.

* In partial standing
The University of Maine

Sumner, Merton Rogers
Tarbell, Leon Clive
Taylor, Florence Anna
Tibbetts, Raymond Winslow
Thompson, Lynwood Burkett
Tobey, Elmer Robert
Towne, Harland Eugene
*Van Horn, Horace Millard
Vaughan, William, Jr.
Verrill, Albert
Vickery, Harry Whitman
Waite, Sumner
Wakefield, George Arthur
Wakefield, Oscar Abel
Walker, Ernest Thaxter
Warren, Benjamin Otis
Weeks, Allen Henry
Wells, Nathan Holmes
Wertheim, Leslie Jack
Wescott, Stanley Leslie
Wetherell, John Gamble
Wheeler, Robert Wass
Whitney, Benjamin Burbank
Whittier, Earle Ovando
Williams, Boardman Stevens
Wilson, Harrison Morton
Wilson, Winthrop Field
Wood, Harold Grinnell
Woods, Lawrence Porter
Wyman, Perley Hammond
Young, Mary Kathleen

South Paris  Φ K Σ House
Smyrna Mills  Stillwater
Hermon  Park St.
Camden  2 Mill St.
Belfast  305 Oak Hall
Norrigewock  3 Forest St.
East Dover  Stillwater
W. Philadelphia, Pa.  Φ Γ Δ House
Belfast  305 Oak Hall
Cumberland Mills  53 Mill St.
East Auburn  No. Main St.
Portland  Φ Γ Σ House
Lisbon  Φ K Σ House
Lisbon  Φ K Σ House
Biddeford  Φ K Σ House
Fryeburg  Β Θ II House
Augusta  Main St.
Kennebunk  Crosby St.
Berlin, N. H.  Β Θ II House
Patten  K Σ House
Portland  54 North Main St.
South Paris  Φ K Σ House
Strong, R. F. D. No. 1  Park St.
Farmington  Θ E House
Ft. Fairfield  Φ Γ Δ House
Cherryfield  Σ X House
Portland  Σ X House
Hallowell  Σ Δ E House
Calais  North Main St.
Hampden  Ω Δ T House
Greenville Jct.  Mt. Vernon House

SHORT PHARMACY COURSE

SECOND YEAR

Bartlett, Fred Ellward  Westbrook  Ω Δ T House
Bradish, Howard Gilson  Calais  Σ Δ E House
Fulton, Ellwyn Mortimer  Blaine  Σ X House
Ormsby, William Herbert  S. Portland, R.F.D. No.8 Myrtle St.
Ridlon, Myron Herbert  Kesar Falls  Pine St.

*In partial standing

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The University of Maine

Sewall, Howard Newton
Ward, George Campbell

<table>
<thead>
<tr>
<th>Name</th>
<th>First Year</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barker, Lester Alonzo</td>
<td>Island Falls</td>
<td>York Village</td>
</tr>
<tr>
<td>Carlton, John Dana</td>
<td>Rangeley</td>
<td>Myrtle St.</td>
</tr>
<tr>
<td>Cheney, Hill Harrison</td>
<td>Monticello</td>
<td>A T Ω House</td>
</tr>
<tr>
<td>Jaffe, Harry</td>
<td>Newport, R. I.</td>
<td></td>
</tr>
<tr>
<td>Kelleher, Adrian Fitzgerald</td>
<td>Orono</td>
<td></td>
</tr>
<tr>
<td>LeBrun, Arthur Albert</td>
<td>Old Town</td>
<td></td>
</tr>
<tr>
<td>Mann, Roy Edward</td>
<td>Van Buren</td>
<td></td>
</tr>
<tr>
<td>Merrill, Clyde Harold</td>
<td>Auburn</td>
<td></td>
</tr>
<tr>
<td>Miller, Orrin Linwood</td>
<td>Carmel, R. F. D. No. 3</td>
<td>Penobscot</td>
</tr>
<tr>
<td>* Richard, Charles Donozor</td>
<td>Auburn</td>
<td></td>
</tr>
<tr>
<td>Shorey, Theodore Newell</td>
<td>City Point</td>
<td></td>
</tr>
</tbody>
</table>

**FIRST YEAR**

**SPECIAL STUDENTS**

Bowdoin, Emery Ray
Britton, Annie Pauline
Bruce, Herbert Putnam, Ce.
Bumps, Imogene Martha
Burns, William Hugh
Burrill, Guy Hadley
Burrill, Harold Simeon
Chase, Mary Ella
Clifford, Harry Benjamin, B. A.

Harvard, 1907

Codaire, Alfred Hotchkiss
Coker, John James
Cook, Albert Freemont
Cook, Walter Arthur
Deering, George Percy
Derby, Frank Holliday
Doolittle, Albert Whiting
Elliot, William M.
Evans, Sidney Gurney
Faulkner, William Thomas
Foote, Frederick William
Fortier, Frank Eugene

* In partial standing

189
The University of Maine

Godfrey, Harold Ernest  Sabattus  Main St.
Gooch, Carl Joseph  Biddeford  Main St.
Haddock, Harry William  Yarmouth  Main St.
Hilton, William  Greenville  Mill St.
Homans, Harry  North Vassalboro  Φ K Σ House
Hughes, Melvine Russell  Bath  Α T Ω House
Kelley, Frances  Old Town  1 College St.
Knowlton, Daniel Fred  Lowell, Mass.  Old Town
LaMarche, George Everett  Orono  Θ Ε House
Leary, Herbert Daniel  East Boston, Mass.  Oak St.
Leland, Clarence Roy  Mechanic Falls  North Main St.
Lennon, Stephen John  Woodfords  K Σ House
Leslie, Edward Warren  Millinocket  Old Town
Linn, Tsi Sheng  Hong Kong, China  106 Oak Hall
McElroy, Joseph Walter  Manchester, N. H.  2 Bennoch St.
MacLean, Daniel Wallace  Eastport  College St.
McManus, Margaret Ellen  Bangor  Bangor
Morin, Joseph C.  Old Town  Old Town
Morrill, Raleigh Dudley  Fort Kent  Beach St.
Munoz, Eugenio Luis  Stafford, Vt.  Commons
Rackliffe, Colby Alden  Ponce, Porto Rico  Stillwater
Scales, Eugene Mudgett  Belfast  Ο Ε House
Scammon, William Francis  Guilford  54 No. Main St.
Shaw, Hugh Earle  Berlin Mills, N. H.  K Σ House
Smith, George Lewis  Long Cove  Σ Χ House
Stinchfield, Otis Decker  Danforth  Α Ε Η House
Taft, Leonora Ellen  Boston, Mass.  Mt. Vernon House
Thurlow, Myra Dunn  Orono  Park St.
Walden, Harold George  Greenville  College St.
Watson, Bernice E.  Gardiner  Mt. Vernon House
Weld, Edith Claire  Old Town  Old Town
Whitmore, James Leon  North Haven  10 Pine St.
Winchester, Sidney Hodge  Corinna  North Main St.

SCHOOL OF AGRICULTURE
SECOND YEAR

Cook, Alfred Searles  Presque Isle  Myrtle St.
Fogg, George Phillips  Hull's Cove  35 Mill St.
Lindsay, Alvin Harold  Carroll  112 Oak Hall
Twitchell, Bernard Franklin  South Paris
The University of Maine

FIRST YEAR

Bates, Irving Willard
Bigney, Samuel Benjamin
Boston, Lawrence Baker
Dow, John Howard
Harris, Robert Burton
Leach, Ernest Comins
Look, Harry Monroe
Merrill, Chester M.
Richardson, Willard Davis
Small, Delma Rhoades
Spear, Tom Sawyer
Walker, James Loten
Welch, Forrest Elsworth

Corinna 54 North Main St.
Greenville Stillwater
Biddeford Peters St.
Castle Hill 63 Mill St.
Waldoboro 63 Mill St.
East Eddington Park St.
Jonesboro Beach St.
South Paris 303 Oak Hall
Bangor 10 Pine St.
Litchfield Old Town
North Leeds Mill St.
Oxford Myrtle St.
Bridgewater 44 North Main St.

SUMMER SESSION

(Abbreviations indicate subjects taken)

Alden, Carolin Hampden Ch., Ps.
Teacher of English in High School E. Orange, N. J.

Alton, Edwin Samuel Lynn, Mass. Eh., Hy., Rm.

Bailey, Ralph Edwin Gilmore Easton Gm., Ms., Rm.
Bowdoin ex- '08. Principal High School.

Barker, Harold Lewis Boston, Mass. Hy., Ps.

Benjamin, Charles Smith Old Town Lt., Ms., Rm.

Blair, Arthur Adolphus, B. D. Old Town Eh.
Tufts Theological School, Medford, Mass, 1895. Pastor Universalist Church.

Boyle, Claude Dover Eh.

Buchanan, William James Old Town Eh.
Mt. Allison University, N. B. Pastor Methodist Church.

Chandler, Abby Agnes Dexter Eh., Lt.
Teacher in High School.

Chase, Arthur Clifford Sheepscot Ms.

Coombs, Evelyn Burrington Bardwells Ferry, Mass. Eh., Ms.
Teacher Jacob Tome Institute, Port Deposit, Md.

Corning, Grover Trites Lynn, Mass. Ms., Ch.

Crocker, Carrie Jane Millinocket Bl., Eh.

Cummings, Nathan Clifford Gorham Ch., Ms., Ps., Rm.

Cutler, Sam Meyer Old Town Ch., Lt., Ms.

Denham, Cecile Gladys Bowdoinham Eh., Lt., Rm.

Dixon, Leon Sicll Orono Ps.
The University of Maine

Dixtrom, Ernest Edmund
Donahay, Etta
Mt. Holyoke College. Teacher of English and History in High School.

Estabrooke, Marion Corthell
Eveleth, Harry Pope
Farnsworth, Alice Belle
Fernald, Thomas Wentworth
Foote, Frederick William
Bangor Theological Seminary. Pastor Congregational Church.

Gray, Maurice Herbert
Griffin, Howard Cousens, B. A.
Bowdoin. Instructor in Chemistry, Hobart College, Geneva. N. Y.

Grindle, Thomas Scott
Hall, William Dickson, B. S.

University of Maine, 1907. Sub-master Aroostook Normal School.

Hamlin, George Harold
Hassett, Harry Charles
Hatch, Roy Otis
Heath, George Byron, Ph. B.
Tufts College, Medford, Mass, 1899.

Hopkins, Mattie Ellen
Hooper, Irwin Frothingham
Teacher in High School.

Houghton, Arthur Clarke
Hunt, Barbara, B. A.
Vassar College, 1906.

Hurd, Sarah Cooper
Albion College.

Hutchinson, Arthur Nash
Infiorati, Matteo

Jackman, Harold Edward
Principal of Smith Grammar School, Augusta.

Kennison, Chrystine Gordon
Kent, Benjamin Calvin
Kingsbury, Forrest Pearl
Knowlton, Daniel Fred
Lancaster, Howard Augustus
Latno, Alice Mae
Linton, Jennie Mae

Colby College, Chicago University. Preceptress Ricker Classical Institute.
The University of Maine

Little, Mary Viley, B. A.  
Memphis, Tenn.  
Wellesley, 1903. Teacher in High School.

Lord, Harriet Belle  
Auburn  
Bates College. Teacher Freeport High School.

Maddocks, Chester Arthur  
Ellsworth  
Teacher in Military School, Bordentown, N. J.

McCue, William Coleman  
Berwick  
Colby College. Principal Grammar School.

McNeil, Harry Daniel  
Bangor  
University of Maine. University of Virginia.

Merriam, Charles Bailey  
Prout's Neck  
Teacher in High School.

Miner, Henry LeRoy  
Haverhill, Mass.  
Teacher in Military School, Bordentown, N. J.

Morse, Warren, B. A.  
Brewer  

Oakes, Walter True  
Milford  

O'Brien, Edward Francis  
Old Town  
Teacher in High School.

Patch, Clifford  
Bangor  
Teacher in High School.

Peabody, Ellen Holway  
Machias  
University of Maine, University of Chicago, Indiana University. Principal of High School.

Perkins, DeForest Henry, Ph. B., M. A., LL. B.  
Skowhegan  
University of Maine, University of Chicago, Indiana University. Principal of High School.

Perkins, Lena Georgia  
Oxford  
Teacher in High School.

Peck, Elmer LeRoy  
Old Town  
Wellesley College, 1900. Teacher in High School.

Purcell, Mary Catherine  
Rutland, Vt.  
University of Maine, 1902. Teacher in High School.

Reed, Philip Page  
Orono  
Teacher in High School.

Rice, Marie Cecilia, B. S., M. S.  
Bangor  
University of Maine, 1902. Teacher in High School.

Ropes, Alice Rogers, B. A.  
Bangor  
Bryn Mawr College, 1902. Teacher of Mathematics and Physics at Jacob Tome Institute, Port Deposit, Md.

Ropes, Ellen Marvin, B. A.  
Bangor  
Bryn Mawr College, 1902.
The University of Maine

Sampson, Arthur Haskell
Small, Frances Clyde, B. A.
Wellesley, 1905. Instructor in English and History in Bar Harbor High School.
Small, Irving Wheelock
Teacher in Mitchell Military School, Billerica, Mass.
Snow, George William
Stanley, Winthrop Hamor
Stanwood, George Sidney
Strout, Clarence Allen
Sturtevant, Walter Linwood
Taft, Leanore Ellen
Taylor, Russell Shepard
Taylor, Thomas Francis, B.A., M.A.
Tibbetts, William Herbert
Principal So. Thomaston High School.
Tooker, Thomas Cox, A. M.
Colby College, 1896.
Trask, Warren Dudley
Van Horn, Horace Miller
Wade, Mary Isabelle
Wakefield, Sylvia Serena
Wass, Clifton Ennis
Superintendent Schools, Sangerville and Greenville.
Wells, Nathan Holmes
Wentworth, George Jacobs
Woods, Harry Morgan
Woodward, Jeanette Reanhard
Teacher at Jacob Tome Institute, Port Deposit, Md.
Woollacott, Fred

Gorham
Addison
Addison
So. Beddington
Old Town
Hull's Cove
Rumford Falls
Milbridge
Bangor
Boston, Mass.
Skowhegan
Bangor
Bangor

Hy.
Eh., Hy.
Hy.
Eh., Ps., Rm.
Lt., Ms.
Eh., Gm., Rm.
Ch., Eh., Ms.
Ch., Ps.
Bl., Ch., Eh., H., Gm.
Bl., Gm., Hy., Ms.
Gm., Hy., Ms.
Gm., Lt.
Eh., Rm.

THE COLLEGE OF LAW

GRADUATE STUDENTS

Blanchard, Benjamin Willis, LL. B. Bangor 118 Congress St
University of Maine, 1904

Bowker, Edgar Marshall, LL. B. Whitefield, N. H.
George Washington University, 1902

194
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
<th>University/Location</th>
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<tbody>
<tr>
<td>Bridges</td>
<td>LL. B.</td>
<td>Charlestown, Mass.</td>
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<tr>
<td>Brown, Leon Gilman Carleton</td>
<td>LL. B.</td>
<td>Milo</td>
</tr>
<tr>
<td>Buckley, John</td>
<td>LL. B.</td>
<td>Stafford Springs, Ct. 350 Union St.</td>
</tr>
<tr>
<td>Clough, George Edwin</td>
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<td>Monson, Mass.</td>
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<tr>
<td>Cotton, Carl A.</td>
<td>LL. B.</td>
<td>Contoocook, N. H.</td>
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<tr>
<td>Cook, Harold Elijah</td>
<td>LL. B.</td>
<td>Waterville</td>
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<tr>
<td>Davis, Waldo Trevor</td>
<td>LL. B.</td>
<td>Bangor</td>
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<tr>
<td>Dunn, Patrick Henry</td>
<td>LL. B.</td>
<td>Bass Building</td>
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<tr>
<td>Folsom ReRoy Rowell</td>
<td>LL. B.</td>
<td>South Norridgewock</td>
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<tr>
<td>Foster, Walter Herbert</td>
<td>LL. B.</td>
<td>Dorchester, Mass.</td>
</tr>
<tr>
<td>Graton, Claude Dewing</td>
<td>LL. B.</td>
<td>Burlington, Vt.</td>
</tr>
<tr>
<td>Heard, Carlos Clayton</td>
<td>B. A.</td>
<td>Biddeford</td>
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<tr>
<td>Johnson, William Asbury</td>
<td>LL. B.</td>
<td>Milo</td>
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<tr>
<td>Kenniston, Hartley Garfield</td>
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<tr>
<td>Libby, Arthur Stephen</td>
<td>B. A.</td>
<td>Spartanburg, S. C.</td>
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<tr>
<td>Linehan, Daniel Joseph</td>
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<td>Lord, Harry</td>
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<td>Merrill, John Bryant</td>
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<td>Bangor</td>
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<tr>
<td>Monroe, Edward Roy</td>
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<td>Portland</td>
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<tr>
<td>Noble, Ernest Eugene</td>
<td>LL. B.</td>
<td>Portland</td>
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</table>
The University of Maine

Perkins, DeForest Henry, Ph. B., M. A., LL. B. Skowhegan
University of Maine, 1900, 1905. Illinois College of Law, 1906

Putnam, Varney Arthur, B.A., LL.B. Danforth
Colby College, 1890. University of Maine, 1902

Plumstead, Frank, B. A., LL. B. Bangor
Bates College, 1896. University of Maine, 1901

Record, Lewis Stillman, Ph. B., LL. B. Ashland, N. H.
Brown University, 1902. University of Maine, 1905

Reid, Charles Hickson, LL. B. Bangor 60 Lincoln St.
University of Maine, 1903

Robinson, Curville Charles, LL. B. Flatbush, N. Y.
University of Maine, 1905

Robinson, William Henry, LL. B. Bangor 42 Hammond St.
University of Maine, 1902

University of Maine, 1902

Violette, Nil Louis, B. A., LL. B. Van Buren
St. Mary's College. University of Maine, 1903

Waterhouse, William Henry, LL. B. Old Town
University of Maine, 1900

SENATORS

Colby College, 1901


Burgess, Frank Beaumont [Beta Theta Pi, Orono
Davidson, Edward Burleigh Sangerville 229 State St.
Driscoll, George Alexander York Village 229 State St.
Villanova College Springfield, Mass. 24 Ohio St.


Goss, Ralph Wentworth [Beta Theta Pi House, Orono
Member of Maine State Bar Berwick 48 Summer St.

Hamilton, Willard Packard, B. A. Caribou 111 Fourth St.
Bates College, 1895

Holman, William Harrison Dixfield 316 Hammond St.
Leary, Thomas Edward, B. S. East Hampden East Hampden
University of Maine, 1904

Maxwell, James Davidson Bangor 27 Grant St.
Nolan, Harry McDonald Haverhill, Mass. 350 Union St.
The University of Maine

Purinton, Frank Howard, B. A. Bates College, 1896. Yale Law School Senior
Rideout, Morton Howard Bangor
Ridlon, Horace Denver Stetson
Seavey, Ernest Linwood Boston, Mass.
Skillin, Carroll Brown North Yarmouth
Waldron, William Linscott, B. A., M. A. Waterville
Colby College, 1899. University of Maine, 1906

<table>
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<tr>
<th>Name</th>
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<tr>
<td>Anderson, Albert Edward</td>
<td>Portland</td>
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<tr>
<td>Brackett, Harry Mortimer</td>
<td>Berwick</td>
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<td>Bridgham, Edward William</td>
<td>Bridgton</td>
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<td>Cartier, Arthur Jean Baptiste</td>
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<td>Elder, Harry Robertson</td>
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<td>Emery, James Edgar</td>
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<td>Fitz-Randolph, Reginald</td>
<td>Boulder, Colo.</td>
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<td>Fraser, William Clayton</td>
<td>Taunton, Mass. 163</td>
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<td>Gallagher, Thomas Francis</td>
<td>West Broadway</td>
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<td>Goss, Harold Isaac</td>
<td>Bangor</td>
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<td>Kiernan, James Francis</td>
<td>Berwick</td>
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<td>Brown University</td>
<td>Wareham, Mass. 123</td>
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<td>May, Seth</td>
<td>Union St.</td>
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<td>Morrison, Roy</td>
<td>Auburn</td>
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<td>Riggs, Verne Lester</td>
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<tr>
<td>Sanders, Thomas Andrew</td>
<td>Saco</td>
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<td>Small, Cyrus Fremont</td>
<td>Livermore Falls</td>
</tr>
<tr>
<td>Snow, Forrest Belmont</td>
<td>Sangerville</td>
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<td>Taylor, John Edwin</td>
<td>Caribou</td>
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<td>Toole, Christopher, Jr.</td>
<td>Bluehill</td>
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<td>Skowhegan</td>
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<td>123 Union St.</td>
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<td>Anderson, William Lewis</td>
<td>Hartland</td>
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<tr>
<td>University of Maine</td>
<td>17 Prospect St.</td>
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<tr>
<td>Arey, Ralph Winfield</td>
<td>So. Brewer</td>
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<tr>
<td>Bisbee, Theodore Wright</td>
<td>Campello, Mass. 163</td>
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<td>Caplan, Israel Harry</td>
<td>Portland</td>
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<td></td>
<td>Y. M. C. A. Bldg.</td>
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FIRST YEAR

Anderson, William Lewis
University of Maine
Arey, Ralph Winfield
Bisbee, Theodore Wright
Caplan, Israel Harry
The University of Maine

Carlson, Oscar Lambert
Cole, William Spratt
Elmassian, Astor
Evans, John Higgins
Grady, Edward Joseph
Halliday, Frank Wade, B. A., M. A.
Dartmouth College, 1901 and 1903
Havey, Andrew Percy, B. A.
Bowdoin College, 1903
Jones, Lawrence V.
University of Maine
Jude, William Floyd
Bowdoin College
Lemaire, Charles Wendell
Minott, Ralph Ramsdell
Mitchell, Robie Lawton, B. A.,
University of Maine, 1907
Packard, Bertram Everett, B. A.
Bates College, 1900.
Patten, William Herbert, B. A., Ph. B.
New York University. Taylor University, 1902
Perkins, James Blenn, B. A.
Bowdoin College, 1903
Sawyer, Joseph Warren
Shedd, Merton Henry
Taylor, Henry Nathan

Lynn, Mass.
[Theta Epsilon House, Orono
East Corinth 239 Union St.
Lynn, Mass.
Bar Harbor 79 Kenduskeag Ave.
Bangor.
Lewiston 25 State St.

West Sullivan 147 Essex St.
Bangor 37 Fifth St.
Ellsworth 33 Jefferson St.
Taunton, Mass. 163 W. Broadway
Lynn, Mass.
[Theta Epsilon House, Orono
West Newfield 17 Prospect St.

Boothbay Harbor 77 Broadway
Milbridge 77 Broadway
East Corinth 239 Union St.
Portland Y. M. C. A. Bldg.

SPECIAL STUDENTS

Chandler, Carroll Delwin
Clancy, Frank Bernard
Higgins, Percy Elmer
Huntley, Ernest Devenport
Lewis, Charles Goodell

Bangor 22 Short St.
Nashua, N. H. 24 Ohio St.
Ellsworth 33 Jefferson St.
Harrington 28 Second St.
New Bedford, Mass. 350 Union St.

198
SHORT WINTER COURSES IN AGRICULTURE

Addis, John Abrou
Bailey, Walter Lester
Bartlett, Leland Hubert
Berry, Walter Rideout
Fogg, Sidney Irving
Hayford, Hugh
Hildreth, Edward Theodore
McDonell, Angus Donald
McVay, James Francis
Nelson, John Otis
Perry, Bertram Charles
Robinson, Clarence Henry

Greenville
Andover
Harmony
New Gloucester
Starks
Belfast
Bangor
Mechanic Falls
Calais
New Gloucester
Milbridge
Peru
**GENERAL SUMMARY**

### Faculty

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<th>Category</th>
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<td>Professors</td>
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<td>Associate Professors</td>
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<td>Assistant Professors</td>
<td>11</td>
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<tr>
<td>Instructors</td>
<td>28</td>
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<tr>
<td>Lecturers</td>
<td>5</td>
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<tr>
<td>Tutors</td>
<td>3</td>
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<tr>
<td>Assistants and Other Officers</td>
<td>21</td>
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<tr>
<td><strong>Total</strong></td>
<td>104</td>
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### College of Arts and Sciences
- Graduate Students: 42
- Seniors: 67
- Juniors: 112
- Sophomores: 132
- Freshmen: 182

### College of Agriculture
- Graduate Students: 37
- Seniors: 22
- Juniors: 19
- First year: 17
- Specials: 11

### College of Technology
- Graduate Students: 44
- Seniors: 18
- Juniors: 19
- First year: 22
- Specials: 5

### College of Pharmacy
- Graduate Students: 31
- Seniors: 18
- Juniors: 19
- First year: 17
- Specials: 5

### College of Law
- Graduate Students: 13
- Seniors: 18
- Juniors: 19
- First year: 22
- Specials: 5

### Agricultural Experiment Station
- Graduate Students: 19
- Seniors: 18
- Juniors: 19
- First year: 17
- Specials: 5

*Members of the general faculty are included in the faculties of the separate colleges when they give courses which are required therein.*

### Students

<table>
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<tr>
<th>Category</th>
<th>Number</th>
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<td>Graduate Students</td>
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<tr>
<td>Seniors</td>
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<td>Juniors</td>
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<td>Sophomores</td>
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<td>Short Pharmacy, Second Year</td>
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<td>Specials</td>
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<td>First year</td>
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<td>Summer Term</td>
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<td>Winter Course in Agriculture</td>
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<td>College of Law, Graduate Students</td>
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<td>Seniors</td>
<td>18</td>
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<tr>
<td>Juniors</td>
<td>19</td>
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<td>First year</td>
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<td>Special Students</td>
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**Duplicated**: 31

**Total**: 776

**Total**

200
The University of Maine

**Classification by Residence**

Maine, by counties:

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<th>County</th>
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<td>Androscoggin</td>
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<td>Aroostook</td>
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<tr>
<td>Cumberland</td>
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<td>Franklin</td>
<td>17</td>
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<tr>
<td>Hancock</td>
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<tr>
<td>Kennebec</td>
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<td>Knox</td>
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<tr>
<td>Lincoln</td>
<td>10</td>
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<tr>
<td>Oxford</td>
<td>37</td>
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<tr>
<td>Penobscot</td>
<td>159</td>
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<tr>
<td>Piscataquis</td>
<td>35</td>
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<tr>
<td>Sagadahoc</td>
<td>7</td>
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<tr>
<td>Somerset</td>
<td>26</td>
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<tr>
<td>Waldo</td>
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<tr>
<td>Washington</td>
<td>48</td>
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<tr>
<td>York</td>
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<td>Colorado</td>
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<td>Connecticut</td>
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<td>Iowa</td>
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<td>Massachusetts</td>
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<td>New Hampshire</td>
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<td>New Jersey</td>
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<td>New York</td>
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<td>Ohio</td>
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<tr>
<td>Pennsylvania</td>
<td>1</td>
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<td>Rhode Island</td>
<td>3</td>
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<tr>
<td>South Carolina</td>
<td>1</td>
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<td>Tennessee</td>
<td>1</td>
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<tr>
<td>Vermont</td>
<td>2</td>
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<td><strong>Total</strong></td>
<td><strong>154</strong></td>
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<table>
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<td>China</td>
<td>1</td>
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<td>New Brunswick</td>
<td>1</td>
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<tr>
<td>Nova Scotia</td>
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<td>Ontario</td>
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<td>Porto Rico</td>
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<td><strong>Total</strong></td>
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**Total Students:** 776
The University of Maine

**Classification by Colleges**

<table>
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<tr>
<th>College</th>
<th>Enrollment</th>
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<td>College of Arts and Sciences</td>
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<tr>
<td>College of Agriculture</td>
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<td>College of Technology</td>
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<td>College of Pharmacy</td>
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<tr>
<td>College of Law</td>
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<td><strong>Total</strong></td>
<td><strong>776</strong></td>
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The University of Maine

STUDENTS IN THE CORRESPONDENCE COURSE IN AGRICULTURE

<table>
<thead>
<tr>
<th>Name</th>
<th>Town</th>
<th>Name</th>
<th>Town</th>
<th>Name</th>
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<tbody>
<tr>
<td>Adams, Charles E.</td>
<td>Bangor</td>
<td>Harriman, M. J.</td>
<td>Kent's Hill</td>
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<tr>
<td>Adams, Frank E.</td>
<td>Huntingville</td>
<td>Hayford, Ralph</td>
<td>Belfast</td>
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<tr>
<td>Aiken, Mary B.</td>
<td>Brewer</td>
<td>Hilton, Ethel May</td>
<td>E. Denmark</td>
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<tr>
<td>Armstrong, H. M.</td>
<td>Cape Cottage</td>
<td>Homer, Roy R.</td>
<td>Bucksport</td>
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<tr>
<td>Atkins, A. N.</td>
<td>Dexter</td>
<td>Hunting, Joseph V.</td>
<td>Welchville</td>
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<tr>
<td>Bacon, Ralph M.</td>
<td>Bryant's Pond</td>
<td>Johnson, B. H.</td>
<td>Athens</td>
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<tr>
<td>Bailey, Walter L.</td>
<td>Dexter</td>
<td>Kantz, Henry</td>
<td>Farmington</td>
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<tr>
<td>Baynum, Mary P.</td>
<td>E. Dover</td>
<td>Knowles, George H.</td>
<td>Dexter</td>
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<td>Beal, M. H.</td>
<td>Dexter</td>
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<td>Berry, F. N.</td>
<td>So. Bridgton</td>
<td>Leavitt, Leonard C.</td>
<td>E. Sangerville</td>
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<td>Berry, Leonard P.</td>
<td>Houlton</td>
<td>Leland, E. H.</td>
<td>E. Dover</td>
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<tr>
<td>Billings, Margaret E.</td>
<td>Newfield, N. J.</td>
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<td>Fairfield</td>
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<tr>
<td>Bowman, H. G.</td>
<td>Hebron</td>
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<td>Sangerville</td>
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<tr>
<td>Brandriff, E. B.</td>
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<td>Livermore, E. W.</td>
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<tr>
<td>Brown, L. Ovis F.</td>
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<td>Lord, Eving E.</td>
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<tr>
<td>Burns, C. H.</td>
<td>Mechanic Falls</td>
<td>McGlaunin, Selden A.</td>
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<tr>
<td>Clark, Ella M.</td>
<td>Farmington</td>
<td>Merrill, H. H.</td>
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<td>Clark, E. W.</td>
<td>E. No. Yarmouth</td>
<td>Merrill, S. W.</td>
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<tr>
<td>Clough, Frank S.</td>
<td>Madison</td>
<td>Milton, Huston</td>
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<tr>
<td>Coffin, Mrs. F. B.</td>
<td>Gilead</td>
<td>Morrill, Harry E.</td>
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<tr>
<td>Day, George W.</td>
<td>Waterboro</td>
<td>Nickerson, L. B.</td>
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<tr>
<td>Dick, Emil</td>
<td>Auburn</td>
<td>Palmer, Fred S.</td>
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<td>Dick, Rudolph L.</td>
<td>Auburn</td>
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| Bachelder, C. H. | Dexter | Fogg, Willard O. |
| Bailey, Bernard A. | Wiscasset | Foss, E. C. |
| Barstow, Luvilee O. | Brewer | French, George H. |
| Bean, W. N. | Old Town | Greeley, S. D. |
| Bearce, Boydon | E. Holden | Gilman, F. H. |
| Benner, Andrew W. | Monmouth | Goodridge, Nathan E. |
| Benner, D. M. | Intervale | Goodridge, Charles |
| Bennett, W. H. | Hebron | Gould, D. J. |
| Black, Hedley C. | Auburn | Hall, C. A. |
| Brett, B. C. | E. Dover | Hall, S. C. |
| Brown, Louis F. | Topsheld | Hardison, H. S. |
| Brown, Moses E. | Silver's Mills | Heald, Clair V. |
| Chandler, C. G. | New Sharon | Hopkins, Harry |
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| Clement, Wilson O. | Freeport | Huff, J. E. |
| Coffin, George P. | Dexter | Hunt, George |
| Copeland, Roscoe | Orono | Hunt, Mrs. George |
| Craig, John B. | So. Andover | Johnson, Lamont |
| Cushman, C. E. | Oxford | Jones, C. L. |
| Davis, H. W. | Garland | Jones, L. H. |
| Davis, W. A. | E. Denmark | Katen, John M. |
| Deering, A. M. | Bangor | Kendall, Nathan G. |
| Dillingham, Charles A. | Bangor | Knight, C. V. |
| Dillingham, Rowena W. | Bangor | Knowles, Elwell P. |
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